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COLMAN'S RURAL WORLD.

HORMAN J. COLMAN, LEVI CHURBUCK. EDITORS

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scribers to do this, and in order to secure them, every present subscriber is constituted an agent to assist in that effort. The price of the RURAL WORLD is one dollar per year, which is cheap, considering the quantity and quality of the paper used, but to accomplish our purpose we will allow every subscriber to send a new name with his own for one dollar, and he may add additional NEW and a strictly cents each, which is less day, September 23, we will begin our regular farmers' institute meetings at Bowling Green, Pike Co. The meetdollar, and he may add additional NEW newals in no case will be received for less than one dollar unless accompnied by the name of a new subscriber.

EDWARD A. FILLEY.

and lived here until about ten years ago, of Agriculture this can be when he returned to New Hampshire to stend his last days. He was 83 years and six months old at the time of his death.

the part of tarmers and to for Agriculture this can be profitable of all the series that have ever been held.

GEO. B. ELLL

ing, the farmer might just as well have cut with a corn knife a few shocks of corn to be fed early and then let his cattle have the run of the stalk field. The corn harvester does help to care for the fodder crop more speedily and gives the farmer a chance to get the crop ready for storing in the best possible shape. The cutting of fodder with a knife is attended with so much that is positively disagreethat farmers have neglected this minimum by the corn harvester, let

view of these facts, are that the ordin-

MISSOURI FARMERS' INSTITUTES.

Diacos where meetings have been located of a good attendance, and I think we can broom sorn.

On Thursday, September 12, at North Haverhill, N. H., occurred the death of Edward A. Filley, whom, doubtless, many of our older readers remember as having been for many years identified with the St. Louis Fair. For a number of years he was superintendent of the cattle department, and in that capacity did much to popularise the St. Louis Fair and make it the greatest enterprise of its kind in the world.

Mr. Filley settled in St. Louis in 1847 and lived here until about ten years ago, when he returned to New Hampshire to when he returned to New Hampshire to the control of a good attendance, and I think we can broom corn.

I have watched the planting of cow peas and it believe the best way is to plant in reasonable distance of any of these meetings have been located of a good attendance, and I think we can broom corn.

I have watched the planting of cow peas and it believe the best way is to plant in reasonable distance of any of these meetings have eaten the been way is to plant in rows. I think the Whippoorwill kind the best. They are great fertilizers. I have seen cattle, horses and poultry leave corn and Milo maize are similar in character. Milo Maize turns down like broom corn.

I have watched the planting of cow peas and I believe the best way is to plant in rows. I think the Whippoorwill kind the best. They are great fertilizers. I have seen cattle, horses and poultry leave corn and other feed to eat the peas. I have eaten them myself when cooked, and have also eaten bread made of Karting the drout than there has ever the best way is to plant in rows. I think the Whippoorwill kind the sent employed. We wish to extent to all of your readers who happen to be in the sent than the sent all in character. Milo Maize turns down like the count of the corn and Milo maize are similar in character. Milo Maize turns down like the count of the corn and Milo maize are similar in character. Milo Maize turns down like the count

acreage of corn will be cut this season that ever has gone on record. Now it is essential that the most careful attention be given to protecting this crop from rains and snow. Many farmers have purchased corn harvesters to facilitate the harvesting the fodder crop and this expense will be absolutely useless if after the crop is put in the shock it is left to the elements to have its food value destroyed.

AN EASTERN KANSAS LETTER.

AN EASTERN KANSAS LETTER.

Sorghum syrup. The decline in the production can only be checked by new and better ways of making the syrup.

It may seem absurd to some to suppose that first-class table syrup can be made in small and poorly equipped horse mills, but it is a singular fact which has not been explained, that the best those fully conversant with the facts must concede that almost without exception, concede that almost without exception,

the minimum by the corn harvester, let this hitherto neglected crop have its true place in the farm feeding problem.

SAVING SEED.

SAVING SEED.

The drouth will have its effects felt until another season's crops are harvested. And this will be most evident in prices for seeds of all kinds, for there has been extraordinary demand for some varieties, because of much replanting, then again in the sowing of such crops the second time, in the hope of maturing late crops. The seed growing districts have also been to some extent sufferers time there is no generally affect to the fair. I am glad to see Nashville take this opportunity to call the attendance on the farm exhibits opportunity to call the attendance on the farm samples to the fair thas killed all the rot and scab on the apples. I spent \$15\$ for blue vitrol to spray one part of my orchard, and the part I did not spray is as free concensus of opinion was that such, especially if of doubtful character, detracted from interest in and attendance on the farm exhibits proper and in the long trunk, by allenating the very best class of the fair. I am glad to see Nashville take by the question of a State Fair. May its shadow never grow less.

Russellville, Tenn. "MAPLEHURST."

I take this opportunity to call the attendance for the fair thas enabled us to raise a fine crop of weeds in the corn fields. Then it has killed all the rot and scab on the apples. I spent \$15\$ for blue vitrol to spray one part of my orchard, and the part I did not spray is as free cane juice naturally is, and so make as good syrup from sorghum as is made in the part I did not spray is as free cane juice naturally is, and so make as good syrup from sorghum as is made in the part I did not spray is as free cane juice naturally is, and so make as from scab as the part sprayed; though last year the apples were all rulned in the part I did not spray is as free cane juice naturally is, and so make as from scab as the part sprayed; though last year the apples were all rulned in the part I did not sp

DROUTH LESSONS

Some of the season of the control of

have done the thinking for me." A man who can never take any advanced ground in anything is on a losing plane. I have noticed several ways of planting Kaffir corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a corn, and I think the best way is to toke a time paper follow:

"Conditious indicate that Kansas syrup makers have only to bring the quality of sorghum syrup to equality with sugar cultivate, as one does corn. Some say that the chrystallizable sugar and the unchrystallizable sugar are the same in the chrystallizable sugar cane juice and sorghum juice, so far as syrup making is concerned. The unless nearly starved. Kaffir corn, jet-undered makers have only to bring the quality of sorghum syrup to equality with sugar and the unchrystallizable sugar are the same in the chrystallizable sugar are the same in the chrystallizable sugar cane juice and sorghum juice, so far as syrup making is concerned. The unless nearly starved. Kaffir corn, jet-unchrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar and the unchrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and sorghum juice, waries the chrystallizable sugar cane juice and corn, and I think the best way is to take

THE PARMENU INSTITUTE.

On the page will be found the anomanement of the opening series institutes to be held the service in the found the anomanement of Agriculture. We again urge ILLAR VOILED readers to a straight for the study and the complete series in the last to expense the last of the straight for the study and the complete series as the study and the study and the complete series as the study and the comple

It rained September 13, and the ground horse mills, with the crudest applia

In a paper prepared at the request of Secretary F. D. Coburn of the Kansas Board of Agriculture, by Mr. A. A. Denton of Medicine Lodge, Kansas, the man who knows most of sorghum and syrup making, are presented the most recent items of interest and wheat stranger of interest and stranger of interest and wheat stranger of interest and a half spent in the West, we are promptly on time in order to get to the next appointment.

EXHIBITS OF FARM PRODUCTS.—

A display of farm products is always in the distribution of the control of

We have assurance from most all of the places where meetings have been located of a good attendance, and I think we can promise the people a profitable meeting on the proof of the control of the contro

The money expended for the corn harvester will be a wise investment, proportionately as this crop is managed to give results as a food product. If the fodder has its feeding value lost by careless storhas its feeding value lost by careless storhas its feeding value lost by careless storhas as a food product. If the fodder has its feeding value lost by careless storhas as a food product. If the fodder has its feeding value lost by careless storhas its feeding value lost by careless storhas as good buildings, which have the most of such things are menced sowing rye for pasture. I will factories. But it can now be clearly demonstrated that as Kansas sorghum syrup maker, with a horse mill, an evaporating maker, with a horse mill, an evaporating

the rest of the earth wants the very finest specimens to be had English or fodder. They are a fine machine. I scotch breeders must be appealed to and quite naturally they set their own price. They are a fine machine. I have cut 36 acres, which with my clover to a more limited extent the same may be said of various sections of the North and East as compared with Dixie. How long will it be so?

I take this opportunity to call the attention of fair managers to the results true. What has the drouth done for us? In the first piace the has enabled us to raise.

What has the drouth done for us? In the presentation of fair managers to the results of the results of the newstrations made by a five size of sorghum, a variety giving as pure juice, naturally, as sugar cane gives. Such a variety has not yet been found. It seems reasonable to suppose that among so many varieties a few are estention of fair managers to the results.

also ben to some extent sufferers shadow never grow less.

I have tried cow peas for the fourth and harvest cane with less labor, the drouth and the prospects, in Russellville, Tenn. "MAPLEHURST."

letw of these facts, are that the ordinary supply will be limited.

Now, let farmers give due heed to saving seed. Many garden seeds may yet be saved, as tomatoes, cucumbers, squashes and even lettuce and radish seeds from late maturing specimens.

Then, corn for seed should be selected as soon as possible. Go over the field and carefully pick out the good cars. Don't save any that are doubtful. When the corn is gathered for seed carefully and they raise no corn the corn is gathered for seed carefully and they raise no corn rows at the last cultivating. Myonly wish is that I had the field all planted to them. Then when I got my only wish is that I had the field all planted to them. Then when I got my only wish is that I had the field all planted to them. Then when I got my only wish is that I had the field all planted to them. Then when I got my only wish is that I had the field all planted to them. Then when I got my only wish is that I had the field all loans of syrup. It is easy to see that they will enrich the savelenged and carefully pick out the good cars. Don't save any that are doubtful. When the corn is gathered for seed and for feed. Though largely planted, it has developed to this into so this year. I got some seed and for the Clay and Whippoorwiii and my patch was covered with pods full of canes have value for feed. The crushed canes have value for feed. Though largely planted, it has developed to the clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for seed and for the Clay and Whippoorwiii and my value for fuel in th could raise the vines, but no seed. Well, Though largely planted, it has developed

57 cents per bushel; oats, 45 cents; corn, 40 it should be closed during the sessions. cents; bran, \$15 per ton; alfalfa seed, \$7 per bushel.

O. E. S. cessful farmers, prominent and expe Sept. 16, 1901.

where there is no such organization, then one should be formed and officers elected and committees appointed to make the Diseases of Poultry—Roup, Cholera and and committees appointed to make the necessary arrangements for the meeting. This office will be glad at any time to aseting. Gaps.

beginning at Bowling Green, Pike Coun-ty, and continue as follows:

Care of Foot; Proper Preparation of the Foot for Shoeing.

Foot for Shoeing. Bowling Green, two days, September

Perry,

Milan, two days, October 2 and 3. Unionville, two days, October 3 and 4. Laredo, two days, October 4 and 5.

Hamilton, two days, October 9 and 10. Mirabile, two days, October 10 and 11. Lathrop, two days, October 11 and 12. Gilman, one day, October 12, Albany, two days, October 14 and 15.

Bethany, two days, October 15 and 16. Guilford, two days, October 18 and 17. St. Joseph, two days, October 17 and 18. Forest City, two days, October 18 and 19. Maitland, two days, October 21 and 22. Rockport, two days, October 22 and 23. Liberty—Grange Hall, October 23 and 24. Norborne, two days, October 24 and 25. Richmond, two days, October 25 and 26. Gashland, one day, October 26. SESSIONS.—Where the interest is suffi-

ient and the time of trains or other means of transportation will permit, there will be held three sessions each day, morning, 10 a. m., afternoon, 1:30 p. m., and evening, 7:30 p. m. Remember that

ton of Medicine Lodge, Kansas, the man who knows most of sorghum and syrup making, are presented the most recent tems of interest and modern methods of syrup making. Pertinent extracts from his paper follow.

"Conditions indicate that Kansas syrup makers have only to bring the quality of sorghum syrup to enter an area."

EXHIBITS OF FARM PRODUCTS.—A display of farm products is always 'n teresting and instructive and often will add considerably to the benefits derived rough feed quite seriously. Corn fodder from the meeting. This exhibit should not take the form of an outside fair which will detract from the interest of the institute, but the collection of fruits, makers have only to bring the quality of sorghum syrup to equality with sugar cane syrup to enter an area. alfalfa, but cane and Kaffir corn are almost a total failure, due more to chinch bugs than to dry weather. A series of showers began on the seventh inst., which have soaked the ground thoroughly and pastures are improving.

Wheat sowing will begin soon, and with a favorable fall the fields will make to a great extent to both horses and hogs.

Hay is worth about \$10 per ton; wheat, 57 cents; bern, \$15 per ton; alfalfa seed, \$77 the first of the collection of truits, grasses and vegetables can be grands the rear of the grand to the arranged on tables in the rear of the grand to the arranged on tables in the rear of the grand to the desired by merchants, banks to the attractive appearance of the room and can be examined only when the institute is not in session. In some places premiums are offered by merchants, banks to a great extent to both horses and hogs.

Hay is worth about \$10 per ton; wheat, 57 cents per bushel; oats, \$6 cents; corn, \$15 per ton; alfalfa seed, \$7 to the grands and vegetables can be grand to the rear of the grand to the decome better acquainted with him by means of the picture and a brief biographical statement:

Mr. Spies was born on a farm near St. Mr. Spies was born on a farm near St. In the display is arranged in a mand an be examined only when the institute is not in session. In some places premiums are offered by merchants, banks and can be examined only when the institute is not in session. In some places premiums are of the picture and a brief biographical statement:

Mr. Spies was born on a farm near St. Mr. Spies was born on a farm near St. Spies w

LECTURERS.—Only practical and successful farmers, prominent and experienced teachers from the Agricultural Col cessful farmers, prominent and experi-enced teachers from the Agricultural Col-lege and Experiment Station, the State Superintendent of Schools or other lead-MISSOURI FARMERS' INSTITUTES.

Geo. B. Ellis, secretary Missouri State Board of Agriculture, has issued the following circular pertaining to the farmers' institutes now being held:

OBJECT.—The primary obect of the ing will cover a wide range of subjects so lowing circular pertaining to the larmers' institutes now being held:

OBJECT.—The primary obect of the
Farmers' Institute meetings is to improve
the condition of the farmer. The field
of investigation along the line of plantof investigation along the line of planting oulfivating and breeding different

The speakers who will attend each meeting will cover a wide range of subjects so
there will not be any one who will not
the condition of the farmer. The field
own line of work. Each one present will
have the opportunity to ask any queslag oulfivating and breeding different
have the opportunity to ask any queslag output of the subject so
there will not be any one who will not
the condition of the farmer. The field
own line of work. Each one present will
have the opportunity to ask any queslag output of the subject so
there will not be any one who will not
that institute speakers.
Having acquired a comfortable competency from farming Mr. Spies has
great faith in the business if it is intelligently followed, and he is always ready
to give to others, particularly young men

sist in advertising the meeting by furnishing circulars of information, list of lectures, subjects discussed, etc.

MEETINGS.—The meetings for 1901 will be divided into five series, the first series

Metering at Bowling Green, Pike Coust.

Metering Grow."

G. W. WATERS, farmer, Canton, Missouri. Subjects: "Soil Building," "Lessons of the Drouth," "Profitable Pig Feeding," "The Farmers and the World's Foot; How to Grow a Good Foot; Proper Pike Coust.

Metering Grow."

G. W. WATERS, farmer, Canton, Missouri. Subjects: "Soil Building," "Lessons of the Drouth," "Profitable Pig Feeding," "The Farmers and the World's Fair of 1902."

Metering Grow."

G. W. WATERS, farmer, Canton, Missouri. Subjects: "Soil Building," "Lessons of the Drouth," "Profitable Pig Feeding," "The Farmers and the World's Fair of 1902."

continue as follows:
g Green, two days, September
M.
Ralls County, two days, SepThe Horse's Teeth—Description of
Teeth; Kinds and Number of Teeth; Relatember 24 and 25.

Mt. Zion, near Hannibal, two days, September 25 and 26.

Monroe City, two days, September 26 and 27.

Any disease in the following list will take an interest in the meetings, make taken up at the institutes on request arrangements to attend every session,

Horses.—Glanders and Farcy, Strangles (Distemper), Influenza, Anthrax, Episoo-tic, Cellulitis, Catarrhal Fever, Infec-



L. A. SPIES, ST. JACOBS, ILL.

Mr. L. A. Spies, whose portrait appears above, is a frequent contributor to the RURAL WORLD. Our readers will be

and helpmate. Together they moved onto

syrup manufacture is not possible until improvement is made in the quality of sorghum syrup. The decline in the production can only be checked by new and better ways of making the syrup.

"It may seem absurd to some to suppose that first-class table syrup can be made in small and poorly equipped horse mills, but it is a singular fact which has not been explained, that the best sugar can syrup and the best sorghum where there is no souch organization, then the structure of the meetings in the production can only be checked by new and better ways of making the syrup.

"It may seem absurd to some to suppose that first-class table syrup can be made in small and poorly equipped horse mills, but it is a singular fact which has not been explained, that the best sugar can syrup and the best sorghum syrup manufacture is not possible until ing.

"ARSEDMAN, Professor of Entomology, Agricultural College. Subjects: "Inspect Pests of the Farm and Orchard and How to Contagious Diseases; How Contagious Diseases; How to Prevent Contagious Diseases; How to Curs Contagious Dis

HON. N. F. MURRAY, President State Horticultural Society, Oregon, Missouri. Subjects: "Commercial Orchards," "Profitable Orchards." Tuberculosis-The Cause of Tuberculo- Gr

ployed who will be present at some of the meetings and lecture on subjects of special importance. All the speakers can not be present at any one meeting, but the work will be divided up and plenty of lecturers will be on hand to conduct the

ALL ARE INVITED .- Let every one Any disease in the following list will be taken up at the institutes on request and discussed with reference to the cause, the following list will be taken up at the institutes on request and discussed with reference to the cause, the following list will be taken up at the institutes on request and discussed with reference to the cause, the following list will be taken up at the institutes on request and discussed with reference to the cause, the goar your sons and your daughters, ask your neighbors to come, treatment and prevention. Those who expect to attend the farmers' institutes should decide upon the subjects for discussion sometime previous to the meeting talk over what you learned, compare notes and at the end of another year we are sure you will be a friend and supported of the Farmers' Institute. year we are sure you will be a friend and supporter of the Farmers' Institute.

Laredo, two days, October 4 and 5.
Sheridan, two days, October 4 and 5.
Breckinridge, one day, October 5.
New Cambria, two days, October 7 and 8.
Callao, two days, October 7 and 8.
Callao, two days, October 7 and 8.
Callao, two days, October 8 and 9.

Citic, Centarious, Mange.
Cattle.—Lumpy Jaw, Blackleg, Tuberculate germination and growth during two their germination and growth during two their germination and growth during two their germination and growth during two cattles.

Cattle.—Lumpy Jaw, Blackleg, Tuberculate germination and growth during two their germination and growth during two cattles.

Cattle.—Lumpy Jaw, Blackleg, Tuberculate germination and growth during two cattles.

Sheep.—Scab, Grub in the Head, Sturdy will be killed before maturing by the frost.

1901—The Biggest, Brightest and Best 1901 LOUIS FAIR F

41ST ANNUAL FAIR OPENS OCTOBER 7, CLOSES OCTOBER 12.

The greatest, most comprehensive and most attractive annual Fair on earth. Competition open to the world. Space and entries free. The liberal premium list more liberal than ever this year. One fare round trip on all railroads, made especially for the Great St. Louis Fair. The all-powerful magnet of Fair Week, that attracts hundreds of thousands of visitors to St. Louis, where a royal welcome awaits all who will come to enjoy the manifold attractions of the Great St. Louis Fair, combined with St. Louis' proverbial hospitality so lavishly displayed in her fall festivities.

MAGNIFICENT AGGREGATION OF BRILLIANT FEATURES THIS YEAR.

The most elaborate and extensive exhibits in Agriculture, Horticulture, Machinery, Farm Implements, Dairy Products, Fruits, Vegetables and the most artistic displays ever seen of woman's work in the Textile Department. The leading LIVE STOCK SHOW OF AMERICA, bringing in direct competition the choicest blooded stock of the leading breeders of this or any

other country. The Poultry Show is concededly the most attractive and thoroughly representative in the world. There will be 6,000 birds of high feather on exhibition. The leading manufacturers of all character of agricultural implements will have an impressive display of their new and improved machinery and most modern devices.

THE HORSE SHOW

Will have the largest number of rings, the brightest features and the most liberal prizes ever offered at any Fair. This year it will be a world-beater. The carriage department will have vehicles of all character, design and manufacture from Main to Manila. The entries are nearly double those of previous years—a record which speaks for itself.

Note the magnitude, magnifeence and magnetism of the special attractions this glorious year of 1901.

A myriad of high-class events.

ADMISSION 50 CENTS.

CENERAL

The Dairy

Mr. Frank Moulton, proprietor of the Cowgill Cheese Factory, Cowgill, Mo., received first premium on his exhibit of "Young America" cheese at the Missouri dent and Secretary of the Fair a cheese, the quality of which was most excellent and speaks well of the skill of Mr. Moulton as a Missouri cheese maker.

September 14, to consider matters of importance pertaining to the association. There having been considerable agitation since the close of the last meeting State Fair. He presented to the Presi-

In Mr. Herbert Shearer's interesting Model Dairy letter on this page, he men-tions the effect of the change of feed on the texture of the butter.

An article from him setting forth what changes were made in the feed as to character and quantity and the effect produced would be very instructive. It would be one of the most valuable of the many lessons taught by the Model Dairy The influence of the feed on the texture color and flavor of butter is a subject demanding the attention of dairymen.

THE ST. LOUIS FAIR,

October 7-12, 1901, the 41st Annual Fair.

Dairymen who have not received a copy of the Great St. Louis Fair catalog of the coming fair, Oct. 7-12, should rement is an attractive one, and is so arranged as to give almost every exhibitor a chance to win something, while the first honors will be worth competing for by the best butter and chesse makers in the country. The first, second and third cash premiums in all classes of butter and cheese range from \$10 to \$2. A diploma will be awarded. quest a copy of John Hackmeister, sec country. The first, second and third theses range from \$10 to \$2. A diwill be awarded on the highest g butter, and also on cheese. One ed dollars will be divided pro rata g exhibits of butter scoring \$9\$ points

and contains a number of full half-tone engravings of photo-s, showing views in the St. Louis Grounds, the handsomest fair

THE DAIRY EXHIBIT

At the Missouri State Fair.

as follows: Nathan King, Deer Park, each breed, and a great deal is being 97%; G. W. Hoadly, Sedalia, 97; Mrs. S. W. Coleman, Sedalia, 90; J. F. Bruns, tural and live stock papers in every state Coleman, Sedalia, 90; J. F. Bruns, cordia, 90; Dickman Bros., Manilla, in the Union and throughout the differ-

the class for best cheddar cheese over 30 pounds, A. E. Helmer of Evans Mills, N. Y., had a very fine grained cheese of excellent flavor, which won first prize with the high score of 37. McCrea and Burkett, Cameron, Mo., won second with a score of 34. In Young America cheese the first premium went to Frank Moulton, Cowgill, Mo., with a score of \$35, second to Heimer, Evans Mills, N.

In the Jerseys, Mr. Oliver, Dearborn, Mr. Bruns, Concordia, Mo., and Mr. Cole-man, Sedalia, were the exhibitors, making an interesting competition. The awards n both products and dairy breeds of cattle were made by C. H. Eckles, Professor of Dairy Husbandry, in the Mo. Agricultural College, Columbia.

What are Humors?

Is the Date Fixed for the Next Convention of the National Creamery Butter Makers' Association.

Editor RURAL WORLD: In response to a call by the president, the executive committee of the National Creamery Butter Makers' Association met in ses-sion at the Grand Pacific Hotel, Chicago,

There having been considerable agitation since the close of the last meeting whether the next annual convention should be held in winter or in fall, the secretary was instructed to ascertain as far as possible the wishes of the various members in response to the junuties. embers, in response to his inquiries there were received up to date 647 postal cards and letters, of which 194 were in favor of winter meeting, 604 in favor of fall meeting, and 39 had no preference.

The committee, after reading over these letters and cards, carefully came to the conclusion that it was the wish of a large majority of the members to have the middle of August, the last load being conclusion that it was the wish of a large majority of the members to have the next convention in the fall of the

and cheese range from a will be awarded on the highest scoring butter, and also on cheese. One hundred dollars will be divided pro rata among exhibits of butter scoring 90 points and over, other than first premium winners, and 850 will be divided in the same way among cheese exhibits.

A solid gold medal and \$10 to cash will be divided in the same way among cheese exhibits.

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A solid gold medal and \$10 to cash will be divided in the same way among cheese exhibits.

A solid gold medal and \$10 to cash will be divided in the same secretary be instructed to have prepared a special championship cup, with the inscription, "Champion Butter Maker of the butter maker winning the specitively, using their butter color.

Colman's RURAL WORLD will give five annual subscriptions to the cereamy butter, and the same as the convertion receives the highest score gold and the convertion receives the highest score at that annual subscription on the best package of dairy butter and the same as a farm.

A solid sold medal and \$10 to cash will give given by the Wells-Richardson Co. to the butter maker at Naphutter and the same as a farm.

Colman's RURAL WORLD will give of the convertions to the cereamy of the convertion receives the highest score at that the secretary be instructed to the correct of the proper of dairy butter and the same as a farm.

A solid gold medal and \$10 to cash will so given by the Wells-Richardson Co. to the butter maker of the highest scoring for the United States." to be present time, however, there is little or no difficulty to the change in feed.

The hondress of the butter. During the months of May and June, when a great the months of given the their given by the wells-Richardson Co. to the butter maker winning the local bank clear-ings. The hanks with which the farmers will receive each month checks aggregating two was experienced during the butter. During the months of given the work of the butter. During the mont

winning the cup three consecutive years to become owner of the cup.

There being no further business of importance to consider the meeting was adjourned subject to the call of the president.

E. SUDENDORF,

HERBERT SHEARER, Elgin, Ill.

THE MODEL DAIRY

At the Pan-American Exposition.

Editor RURAL WORLD: The Model Editor RURAL WORLD: The exhibit of dairy products at the recent State Fair, while not large, was of good quality. In the creamery class there were six exhibits, which scored as follows: W. S. Dille, Holden, 97; W. S. Dille, Holden, 96%; Dickman Bros., Manilla, 89%; Concordia Cry. Co., Concordia, 96; J. J. Smith, Sweet Springs, 33; M. Mortenson, Sloux City, Ia., 94. In the class for best 5 pounds of dairy butter the highest score, 97%, was given to Nathan King of Deer Park, Mo. The complete list is as follows: Nathan King. Deer Park as follows: Nathan King. Deer Park Editor RURAL WORLD: The exhibit Dairy at the Pan-American has probably

ent provinces of Canada RED POLLS.-The Red Polls have astonished a great many people who were unfamiliar with the breed, as they have continued to furnish a flow of milk for the dual-purpose cow. Throughout expected that the fair manage- the sections of the Middle South when It is expected that the fair management will be able to offer better accommodations for the display of dairy products in the future.

In the dairy cattle exhibit the excellent herd of Holsteins owned by M. E. Moore, Cameron, Mo., was quite an attraction. There was no competing herd in this breed.

In the Jerseys, Mr. Oliver, Dearborn, the description of the Middle South where an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted whose calf is good for veal or to raise as a steer, this breed an animal is wanted wanted an animal is wanted whose calf is good for the animal is wanted accept cows, one of which was advanin years, while another was in very poor condition with little or no established

PERCENTAGE OF FAT.—Another point of interest has been thoroughly demonstrated in regard to the effect that feed has upon the percent of outter fat. During the four months of the Exponent sition the amount and kind of feed has

REPORT OF THE MODEL DAIRY

At the Pan-American Exposition, Giving Totals of Each Herd Complete from the Commencement of the Test, May 1, up to and Including the Week

		ng Septe			-	-		-
	Lbs.	Amt.	Value	Value	Value	Value	Total	Profit
Name of Herd.	Milk.	of B	at 2	Hay	Silege	Grain	Cost	
		Butter	E .	Fed.	ge Fed	n Fed.	Feed.	
	00105 0	1044.67	\$261.15	24.08	16.16	70.27	110.60	\$150.06
Holstein	02201 0	959.16	239.99	24.71	16.12	69.79	111.46	126.12
Shorthorns23201.2 French Canadian18587.6		832.11	208.03	18.40	13.82	48.13	80.55	127.48
French Canadian	20368 9	1069.32	267.32	25.82	12.20	58.49	96.51	171.91
Guernseys	24275.8	1081.40	257.84	23.39	13.75	59.54	96.60	161.24
Polled Jerseys	15163.1	810.	202.40	24.12	9.72	42.10	75.95	126.54
Jerseys		1034.77	258.67	20.68	13.27	59.67	93.82	164.86
Dutch Belted		701.34	175.38	21.60	10.81	57.53	90.92	84.41
Red Polls		983.32	245.98	22.28	13.40	61.29	96.97	148.61
I'r wn Swiss	23171.0	961.48	240.42	29.32	18.57	61.69	104.16	132.16

large majority of the members to have the next convention in the fall of the year, not only the butter makers, but many of the commission merchants and almost all of the supply houses, who are the main contributors to the premium fund, favored a fall meeting.

The following resolutions were unantimously adopted by the committee, all the case to a remarkable degree. The converges appears to be thoroughly convinced that the sliage has proved its value in the case to a remarkable degree. The

by farms.

BUTTER FIRMNESS. — Since less a year.

That means \$500,000 a mount of a year.

"It will take some time to work up this "It will take some time to work up this "but take some time take some time to work up this "but take some time to work up this "but take some time to work up this "but take some time take some time take some time to work up this "but take some time take som

butter, and the same to the cheese factory that shows the best cheese; also an
annual subscription on the best package
of dairy butter and the same as a farm
made cheese.

Send for a catalog at once; it is a

Creamery Butter Makkers

United Makkers

States and Canada. The judges who will
score at that
score at that
score the butter in the October exhibit
convention each year. Any butter maker
winning the cup three consecutive years
Boston, and Steinhoff of Ontario. The
to become owner of the cup. October are Mr. Brice of Montreal, Mr.

-
SEPARATOR CLASS-60 LB. TUBE
Holden, Mo., Creamery95
Holden, Magnolia Branch95
Holden, East Lynne Branch94
Macon, Mo., Creamery Co94
Corning, Mo., Creamery Co94
Cosby, Mo., Creamery Co98
Garden City, Mo., Creamery Co98
Macon Creamery Co. (Branch 1)92
SEPARATOR CREAMERY PRINT

peting. Missouri's average on September entries is a small fraction below 93.96.

R. L. WRIGHT, Supt. Sept. 16, 1901.

TO MAKE A COW MILK EASILY.

M., Warren county, Ill., wants a "reliable recipe for making a hard milking cow milk easily." The writer can tell him how to make a cow milk easier and not do injury to her teats. Some years ago a en, but these singularly masculine figures great many cows had their teats destroyed by the use of dilating plugs. One smart individual proposed to make holes that any child could squeeze out the milk, and he just about the milk the milk, and he just about the milk the destroyed his herd. The only "reliable They are vitiated or morbid fluids coursing the veins and affecting the tissues. They are commonly due to defective digestion but are sometimes inherited.

How do they manifest themselves?
In many forms of cutaneous eruption, sait rhedm or eczema, pimples and boils, and in weakness, languor, general debility. How are they expelled? By

How do are they expelled? By

How do are they expelled? By

How are they expelled? By

How are they expelled? By

How are they expelled? By

It is the best medicine for all humors.

It is the best medicine for all humors. recipe" the writer can give is to be on hand when such a cow drops her calf. Don't allow the calf to suck, or the teats

A BIG MISSOURI CREAMERY

In a recent issue of the RURAL WORLD mention was made of the Blue Valley Creamery lately established in St. Joseph, Mo. The "Herald" of that city quotes Mr. W. W. Marple regarding the

almost all of the supply houses, who are the main contributors to the premium fund, favored a fall meeting.

The following resolutions were unanimously adopted by the committee, all members of which were present.

Resolved, That in compilance with the wishes of the majority of the members of this association that the next annual convention be held in the fall of 1992 and that the the fall of 1992 and that the the fall of 1992 and that the fall of 1992 and that the detailed for the desired that the desired to furnish the competition from Topeka, or such and the fall of 1992 and that the detail of 1992 and the the fall of 1992 and the fall of 1 nual convention be held in the fall of 1902, and that the date be fixed for Oct. Stoddard Co., is designed to furnish silage for the remainder of the season. Resolved, That in as much as the next convention will not be held until the work filling this silo with green corn their cream here regularly. The bill of the work filling this silo with green corn their cream here regularly. The bill of the work filling this silo with green corn their cream here regularly. The bill of the work filling this silo with green corn their cream here regularly. onths more than 10,000 farmers will send their cream here regularly. The bill of each of these will average \$50 a month. That means \$500,000 a month or \$6,000,000

business," continued Mr. Marple, "but once it is worked up it will be a great thing for St. Joseph as well as the stock-

bound to resort to dairy farming in order to exist, as their states are in the semi-arid regions where crops cannot be counted upon. These figures show that Kansas and Nebraska, to say nothing of Illinois and Iowa, exceed Missouri in the value of their corn and wheat value of their corn and wheat crops. Notwithstanding, the farmers of those states find it profitable and desirable to follow dairy farming. In this state they have regarded the work as that for wom-

has seven men on the road making ar-rangements with the farmers to ship their cream to this city and before long this



TEN

派

Here's a Chance to Make More.

You can work for us and make a better salary than any other man in your county. We are engaging special representatives in every county in the United States, to handle our two great remedies. We must have active, wide-awake men and women at once and are willing to pay good money for good people. Our remedies are without exception, the best sellers on the market. You sell them on a positive guarantee.



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Modern Remedy Company, Kewanee, Illinois.

We refer to Kewanee National Bank as to our responsibility.



FAKE SEPARATORS.

'Dilution' Apparatus a Worthless Fraud

Tin cans for raising cream on diluted milk, sold under the name of "cream sepcans for raising cream on diluted arators," have been shown up as worth less time and again. But still they are sold and bought. Here is the experion this of H. P. Olson, butter maker at Asi "but Minn., as related in "Dairy Record:"

"It might be of interest to some read-

Mr. Marple says that for the present his company will not establish skimming stations, as the big creameries at Lincoln and Beatrice have done, but that skimming will be done by the farmers at their homes. To do this they will have to buy the hand skimmers, which the Blue Velley Company will sell on easy terms.

**The stripe have made the system of the milk, and just as clean as could be done by any hand separator. If this is a fact, I said, the will be foolish to buy hand separators, as they cost more and it kakes more done where the cream from the milk, and just as clean as could be done by any hand separate the cream from the milk, and just as clean as could be done by any hand separate the cream from the milk, and just as clean as could be done by any hand separator. If this is a fact, I said, the will be foolish to buy hand separators, as they cost more and it kakes more and the takes more and the takes more and the same cold water and let it stand 40 minutes and draw the cream. So I asked him to let the cost more and it is stand 40 minutes and water and each of the cost more and it will be foolish to buy hand separators. If this is a fact, I said, the will be foolish to buy hand separators, as they cost more and it to work than simply to pour in some cold water and let it stand 40 minutes and they cost more and it is taken more and they cost more and it is will be foolish to buy hand separators. to buy the hand skimmers, which the HERBERT SHEARER, Pres. Department, Buffalo, N. Y. Bazaar Building.

Buffalo, N. Y. Bazaar Building.

MISSOURI BUTTER.

In the September Scoring at the Pan-American Exposition.

SEPARATOR CLASS—60 LB. TUBS. Holden, Magnolia Branch. 94.25 Macon, Creamery Co. 94.25 Corping, Mo., Creamery Co. 94.25 Cosby, Mo., Creamery Co. 94.25 Corping, Mo., Creamery Co. 94.25 Cosby, Mo., Creamery Co. 94.25 Cosby, Mo., Creamery Co. 94.25 Macon Creamery Co. Macon. 95.25 Macon Creamery Co. (Branch No. 3).80.75 Macon Creamery Co. (B

CLEANLINESS IN DAIRYING.

sired than in the dairy. The milk or butter producer who keeps cows that are not healthy, whose stables are constantly filthy and poorly ventilated, whose milk cans are not properly cared for, who allows flies and other insects to drown in the milk, and who is personally unclean and slovenly, does not deserve the pat-ronage of respectable people. It would be well if consumers of milk and butter could make occasional visits to the dairy from which they are supplied. Such visits by patrons would do more toward keeping darries clean and making their products wholesome than all the inspec-tions by the board of health.—Hood Farm Topics.



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CPT OUR FREE LIST of Farm Bargains. S BLI H. Morton & Co., Gen. Land Agts. Agricult-ural, Mineral, Coal and Timber Land. Office, 85 Lincoln Trust Building, St. Louis. \$10.00 PER ACRE will buy a fine hundred acre located on railroad in Independence County, Ark., near a cotton seed off mill. Apply to C. P. VAUGHAN. Sulphur Bock, Ark.

FARM FOR SALE half cash and balance on time hedge and wire fence, all in cultivation except a vice. Two never failing wells, one never failing spring, and two springs that never failed until the present drought, a good place to make a fish pond. New stock barn 60 x100 feet, machinery buildings, cribs, granaries, seales, good 11 room two story farm house etc. Plenty of good fruit for home use. Bald to be one of the beat farms is Green County, two miles south of the public square, Byringsfield, Mo. Address

D. B. LOY. Aurora, Mo.

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Winchester, Ky.



Horticulture

Now for the Charleston, S. C., Exposi-

Charles C. Bell, Missouri State Commissioner to the Pan-American and Charleston Expositions, in charge of the horticultural exhibit, asks the RURAL WORLD to express his high appreciation of the good will manifested by the fruit growers of the state in sending him supplies of fruit for exhibit at Buffalo. Further shipments are, however, not needed for the Pan-American Exposition, as Commissioner Bell has in store an ample supply with which to maintain the display for the time now remaining until the close of the exposition. He would, how-ever, be greatly obliged if fruit growers would make collections for the Charles-ton, S. C., Exposition. These should be sent to him in care of the St. Louis Refrigerating and Cold Storage Company,

WILL REACH 500 CARS.

West Plains has ended and there were eleven cars of this luscious fruit sent to the eastern markets from this place. Of this number, Joe Knoerle of the Lone Pine Fruit Farm, shipped six cars, which entities him to high honors.

Soom four acres, on which there were in the winter. Yet, upon inquiry, choice fruit can be found in the storage established 1,500 six

THE MISSOURI HORTICULTURAL EXHIBIT AT THE FOUNDATION THE MISSOURI HORTICULTURAL EXHIBIT AT TH The shipment of Elberta peaches from

have already been shipped from the South Missouri peach belt this year. The en-

which the farm is located, gives a superb chards and vineyards.

has been constantly improved ever since, and will soon be one of the most noted in this section for its apple product. The farm consists of about 300 acres, eighty acres of this having been cleared for apple trees, which will bear this year, and

hundred crates have been shipped so far from the forty acres of peaches, there being one hundred and forty acres in fruit, no grape culture, however having been attempted as yet. Mr. Knoerle will



THE MISSOURI HORTICULTURAL EXHIBIT AT THE PAN-AMERICAN EXPOSITION, CHARLES C. BELL, COMMISSIONER IN CHARGE.

In the estimation of all fruit growers, the crop of late peaches will be about naif of that already shipped out. According to an estimate made by Superintendent Agee of the Southern Express Company, at least 350 cars of peaches have already been shipped from the Southern Express the superintendent Age of the Southern Express Company, at least 350 cars of peaches have already been shipped from the South are limits, however, beyond which the results of these shipped from the South are limits, however, beyond which the results of the southern are limits a have already been shipped from the south Missouri peach beit this year. The entire crop will easily reach 550 cars, an estimate that was published in the "Gazette" some two months ago.—West Plains (Mo.) Gazette.

The warmth in the soil is one of the reductive requirements to insure root growth, and the moisture is the other requirement. In fall planting the horticulturist can control these two essentials in all ordinary seasons.

The large leases of trees so often recommendations of different stages.

The large leases of trees so often recommendations. tardation of these fancy varieties cannot The warmth in the soil is one of the re-The West Pains, Mo., "Gazette" thus describes a Howell County fruit farm:

The Knoerle farm is two miles and a half out, along a valley road that gradually ascends till a fine rise of ground on to the discovery factors.

The Unity Mo., FRUIT characteristics; the comparative effect of sudden versus slow chilling of the fruit when placed in storage; the relative merit of tight versus ventilated packages, of wrapped versus unwrapped fruit, and of various methods of packing in relation to the discovery factor of the past two years. One packing in relation to the discovery factor of the past two years. One packing in relation to the discovery factor of the past two years. One packing in relation to the discovery factor of the past two years. One packing in relation to the discovery factor of the past two years. One packing in relation to the discovery factor of the past two years. One packing in the past two years. One packing in the past two years.

HARVESTING APPLES.

continue to look to his peaches and apples, to make his investment pay, and leave grapes and other small fruits alone. "This is the best peach year," said Farmer Knoerle, "since "f, but the price was better then. If I hadn't been such a fool," continued the well known West vantage by solutions. It is best to be to meet its demands, writes O. H. Barnhill in the "Farmers Tribune."

A large crop of good winter apples can sometimes be disposed of to the best additional to the solution. sometimes be disposed of to the best adfool," continued the well known West
Plainer, "and cut my peach trees in '96
to snow line when I thought the bliszard
of that year had ruined them, but I
acted on the advice of the best authority
in the state, I might have shipped this in the state, I might have shipped this is a good judge of the market and the season forty car loads. But then," he said with a sly wink, "there were others, and I was only half a fool, for I was a doubting Thomas at the time, and only slashed into part of the trees. Look at that one in front of you, it didn't get dehorned, and see the peaches?" We all looked on a beautiful sight, a thrifty tree with glossy leaves and laden with rosy American and Charleston Expositions.

At least that is the opinion of many reason as simply a result of the growth of yeast plants—this same phenomenon is what causes bread to rise.

Yes, Joe Knoerle and the other fruit should be picked as soon as the social should be picked twith the social should be picked them care should be possible

the present time that the visible supply In dry and warm soil the roots of the cleaned, are well worth twen of choice winter apples on the market is newly set trees will actually lose a part per bushel for this purpose.

From four acres, on which there were 559 trees, Mr. Knoerle picked 1,509 six basket carrier crates of peaches, equal to three car loads. All of this fruit was fancy graded and brought the top price of the markets.

In the estimation of all fruit growers, In the estimation of all fruit growers, the crop of late peaches will be about the state of the state

this section for its apple product. The character of the varieties in the character of the varieties of about 300 acres, eighty res of this having been cleared for ple trees, which will bear this year, and ises to become the most important factor le yield promises to be a most profitable or chard products."

As the processor sat surrounced by making their culture profits ent were dead. On the lowest quarter about 30 per As the processor sat surrounce of the solvent were dead. On the lowest quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the processor sat surrounce of the solvent quarter about 30 per As the surrounce of the solvent quarter about 30 per As the surrounce of the solvent quarter about 30 per As the surrounce of the solvent quarter about 30 per As the surrounce of the solvent quarter about 30 per As the surrounce of the solvent quarter about 30 per As the surrounce of the solvent quarter about 30 per As the



CHARLES C. BELL. Treasurer Missouri State Commissioner to the Pan-

will not be necessary to do much of the dest of all, it might have been."

Yes, Joe Knoerle and the other fruit experimenters of West Plains who cut lown fruit trees might have caused an extension of the railroad to their farms tension of the railroad to their farms then in the hard the plain and consequent decay, it is establed to encessary to do much of the plains who cut lower quarter there was moisture neough to start the roots of 70 out of 100 the unaided eye, because they are only about one-ten-thousandth of an inch in diameter, and each is unicellular. These sufficient to save all the trees, extends to rise.

"You cannot see them, that is, not with the visus prompting all at once the first had sent out messengers to study the diameter, and each is unicellular. These they hadn't been such wise sages in thinking it takes all summer for the bees causes bread to rise.

"You cannot see them, that is, not with the unaided eye, because they are only about one-ten-thousandth of an inch in diameter, and each is unicellular. These they hadn't been such wise sages in thinking it takes all summer for the bees out causes bread to rise.

"You cannot see them, that is, not with the unaided eye, because they are only about one-ten-thousandth of an inch in diameter, and each is unicellular. These strength of the trees, extends the ply dark and cloudy, these busy workers to complete. Hone desire their dwelling all at once.

The was unficient to save all the trees, extends the results same pnenomenon is what rain is in the air. When the sky is simplication and cloudy, these busy workers to conclude the tree.

To use an other dwelling all at once of the tree deause they are only about one-ten-thousandth of an inch in diameter, and each is unicellular. These strength is an output to the noisture doubt one-ten-thousandth of an inch in diameter, and each is unicellular. These strength is the air. When the sky is simple to the was undied to the result was sufficient to save all the trees, extended to rise.

The prestar are in t

On turning homewards the party drove through the fine orchards and came into town with a generous souvenir of a visit to a Howell County fruit farm.

COLD STORAGE OF APPLES.

COLD STORAGE OF APPLES.**

The Year Book of the Department of Agriculture for 1960 contains the following:

"The greatest usefulness of refrigeration for five apple is now, and probably will continue to be, in the United States, where the long, warm falls and unsettied winters make cellar storage uncertain at a possible, taking care that it does not get dealth and was a near the freezing point as possible, taking care that it does not get dealth with the produce to distant markets where the long, warm falls and unsetties. It is evident, however, that 'n many seasons refrigerated storage in the great apple districts of the north greatly lengthens the marketing season.

**Applea are sometimes stored in frenches and allowed to freeze. after thenches and allowed to freeze. after then highest prices and it is doubtful whether it nays follows: and at the highest prices and it is doubtful whether it nays follows: and at the highest produce distant markets that uses follows: Given a proper variety of that is doubtful whether it nays follows: and at the highest prices and it is doubtful whether it nays follows: and it is doubtful whether it nays

TO BREED SPECIAL WINES.

ological laboratory of the Virginia Agricultural Experiment Station Prof. Alwood, the head of the department, has been working for some years in an experi-mental way on a study of the fermentation of fruit juices, and last year went abroad to study in the French and German laboratories the methods of isolating and cultivating special germs for the manufacture of wines and other beverages from fruits.

In answer to a question, Prof. Alwood stated that for some years the theory has been quite strongly advanced by certain Frenchmen, and in a more conservative manner by certain German scientists, that the special quality of wine in any particular district is due to the organisms which produce the fermentation, and that by isolating these organisms and using them in fruit juices, wines or beverages of like quality can be produced practicaldescribes a Howell County fruit farm:

The Knoerle farm is two miles and a hard out, along a valley road that gradually ascends till a fine rise of ground on which the farm is located, gives a superbole distribution of fruit.

The fact that some of the choice varieties of apples that were formerly unbased because of their poor keeping and will soon be one of the most noted in this section for its apple product. The farm ease been constantly improved ever since, and will soon be one of the most noted in this section for its apple product. The farm ease location is two miles and a wrapped versus unwrapped fruit, and of various methods of packing in relation to the discoloration known as "barrel scald;" and the effect of different profitation of fruit.

"The fact that some of the choice varieties of apples that were formerly unbased the since it is discoloration who as a "barrel scald;" and the effect of different profitation of fruit.

"The fact that some of the choice varieties of apples that were formerly unbased the first time during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be produced practical-two during the past two years. One of like quality can be related by without regard to where the fruit is over 300 fruit trees. They were set on a stoppe.

In the spring of 1990 he found most of them dead. He sent for me to examine the situation. Investigation showed that at the situation. Investigation showed t

"This little vial." said he, "contains the germs which produce the famous French Sauterne wines, and this other the Bordeaux, and here is a vial of germs isolated from the finest of French champagnes. Then in this other collec-tion here we have the germs of the fa-mous Rudeshelmer white wines, and in this other tube are the germs of the Laureiro, and here we have a whole col-

lection from the famous Rhine wines."
"And what are these germs? Are they some sort of tiny animal that affect the fermentation?" "Oh, no; not at all. They are simply minute vegetable organisms, which find

the juices of fruits the proper soil or medium in which to effect their growth, and, by this growth, they consume the sugar of the fruit juices, producing alcohol equal to about half the weight of ugar, and the remainder of the sugar es-

of the various fruit beverages produced." well-filled holds five pounds, good weight.

The American Cultivator says that the

the first of November cut off one-third of the tops of what is left before laying down for winter. This severe pruning is important. It must be done or your patches will run out. Now bury the tips of the black and purple kinds for plants and avoid all weak or diseased bushes. The early varieties should have tips laid or buried during the last half of August. Keep weeds mown on strawberry beds.-The Fruitman.

APPLES INTENDED FOR CIDER should not be piled on the ground, for they will soon acquire an earthy flavor, says the "Orange Judd Farmer." This will taint the cider and lower its quality. Neither should they be stored in closed bins without free circulation of air. Decay soon sets in and loss of quality is
a few colonies of bees as a sort of a sid cay soon sets in and loss of quality is sure to result. Lay down some boards to under the trees and upon these place the apples which are to go to the cider mill. They will keep very well in that way, but it is advisable to get them to the mill honey to thus manage them, and in every loss of the control o

The Apiary

BEES AS BAROMETERS.

Such should be the title of these insects, for whoever observes them carefully finds it easy enough to foretell ex-

and the sweat of his good natured brow these hot summer days. He says he can't some have had good success in packing apples in oats from which all dirt and on the road and he hasn't tried to approximate it.

It is, safe to say, however, that the Knoerie fruit farm is a better sayings bank than the Beaumont oil fields.

On turning homewards the party drove through the fine orchards and came into town with a generous souvenir of a visit form. If allowed to the spring it is claimed they are deeply covered with straw and dirt. If allowed to thaw out gradually in the spring it is claimed they are MARKET.

of the liquor produced.

"My statement of the possibilities of fully, leaving nothing to chance. The roduce sells first and at the highest produce sells first and at the highest produced.

"My statement of the possibilities of fully, leaving nothing to chance. The it had once been established, until all colonies have queens; should any queen-produce sells first and at the highest produced in the produced will pay to do this part of the work care it had once been established, until all colonies have queens; should any queen-less ones be found unite them to the wise disposed of.

streat apple districts of the north greatly ventilation decay will result.

Producer to have his name and address neatly printed upon every package, which will soon pass upon the market as a guarpite producer have probably come through

Those who set out trees in the autumn antee of good quality. Inferior produce

The great apple districts of the north greatly ventilation decay will result.

Producer to have his name and address neatly printed upon every package, which work are not to be realized?"

The great apple districts of the north greatly ventilation decay will result.

The great apple districts of the north greatly ventilation decay will result.

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The great apple districts of the north greatly ventilation decay will result.

The great apple districts of the north greatly ventilation decay will result. Those who set out trees in the autumn should remember one very important that is, trees set out in the fall is usually light current in dry, as the rainfall is usually light durben prosent time that the visible supply of choice winter apples on the market is newly set trees will actually lose a part.

Those who set out trees in the autumn should be sold upon the local market, when the local market, when the sold upon the local market, where it will not be subjected to the jar and delay in shipping.

The who set out trees in the autumn should be sold upon the local market, where it will not be subjected to the jar and delay in shipping.

The who set out trees in the autumn should be sold upon the local market, where it will not be subjected to the jar and delay in shipping.

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The who set out trees in the autumn should be sold upon the local market, where it will not be subjected to the jar and delay in shipping.

Wood ashes contain the mineral elements are never to be realised, in my opinion, but the somplete investigation of the subject is not half finished. I have progressed far enough to feel warranted in saying that enough to the realised, in my opinion, but the subject is to tis weight for bees and polien. Then that is, to the realised, in my opinion, but the subject is to tis weight for bees and polien. Then that is, to the realised, in my opinion, but the subject is of the subject is onto half finished. I have progressed far enough to the subject is onto half finished. I have progressed far enough to the realised, i

Having ascertained the number of pounds required by each colony, if there should be a shortage after "awapping" full combs for empty ones (as far as they will go) then sugar syrup is the next best

MAKING SYRUP.-In feeding sugar making symple in recening sugar syrup it must be remembered that pound for pound it is not equal to honey. That is, the syrup contains less sweet per pound than the honey, and it is the sweet that counts as bee feed. Our manner of syrup making is a very simple one. If early enough in the meason to give cold feed we out \$5 pounds of water in the ex-tractor and drive the machine at a good speed, slowly pouring in 50 pounds of the best granulated sugar. In less than ten minutes the mixture is perfect, when it may be fed. This style of syrup we only onsider good for September. For the middle of October the syrup must be fed warm, and is made of sugar, 30 pounds, water 15 pounds, honey 5 pounds. In making the syrup be careful not to burn it in the least or the result may be serious to the bees. It is ready to take from the fire as soon as all the sugar is dissolved; boiling is not necessary; stir in the honey after taking from the fire. If properly made this is a syrup that will keep ndefinitely without either granulating or FEEDING .- As to feeders and feeding

best and least expensive way of feeding in winter. Before starting to feed, each colony should have a quilt of ducking (made to fit exactly) placed on top of the frames so that when the cover is removed the bees cannot get up to annoy the cover of the c original greening apple tree is still standing on the farm of Solomon Drowne at Mount Hygela, in North Foster, R. I. Mount Hygela, in North Foster, R. I, the seller interes was a very old one when the farm was sold in 1801. The seller informed the purchaser that it was a pity the old tree was going to decay, as it produced the best fruit of any tree in the orchard. The purchaser determined to see how long he could keep it alive, and it still survives, after almost another the seller into a common milk or bread pan, and cover with cheese cloth to keep the bees from drowning in the syrup. When placing this on the hive turn back one corrected it still survives, after almost an error of the quilt to allow the bees to get up and down, and be very careful that to see how long he could keep it alive, and it still survives, after almost another century has been added to its venerable years. But it shows signs of final decay, and the parent of all the famous erable years. But it shows signs of final decay, and the parent of all the famous Rhode Island greenings, which has set its grafts on the orchard of almost all the world, will soon be but a neighborhood memory.

everything fits tight, so that robbers may not get a start. Feeding at this season of the year must be done at night, or at least after bees have quit flying for the day. A good strong colony will often carry down from 15 to 20 pounds in one THE RASPBERRY CANES.—See that all the old or diseased or weak canes of raspberries have been cut out close to ground and burned. Later in October or the first of November out of the first of November out of the control of the contr

CLEANING COMBS.-All extracted combs, and, in fact, all combs that have a little honey in them, should be re-turned to the hives in order to be cleaned up. We have sometimes been annoyed by bees putting the honey they cleaned from extracted combs back into t combs instead of carrying it down belo where we want it. To get over that difficulty use the quilt the same as when feeding, and they will invariable put the

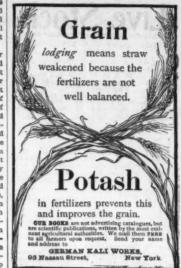
SURPLUS CAPACITY FOR A COLONY OF BEES.

It is a hard matter to get impressed on case where the bees do well it results in swarming, where if they had a large surplus capacity, the bees would content themselves storing honey, and in most cases remain without swarming.

Some may not object to swarming, and would prefer this kind of increase, in ase it is all right, but it is rarely so that the honey crop is not preferred, and the results would be greatly changed if more care were given in this particular The surplus capacity should be fully as large as the hive containing the beer, and very frequently they need more. It is also a mistake often made by this class of beekeepers, that they allow the honey to remain on the hives perhaps until fall, thinking it takes all sun

many full trees might have caused an extension of the railroad to their farms one seems of the railroad to their farms of the railroad to the railroad to their farms of the railroad to their farms of the railroad to the r

as the honey produced was of amount and the hivers were found not



GINSENG. All about this money-making plant for 2-cent stamp. Send to-day. C D. NUSBAUM, Jonesboro, Ill.

Otwell's Nursery, Carlinville, III.

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HARVEST KING and CANADIAN HYBRID

SEED WHEAT. Timothy, Clover & Grass Seeds.

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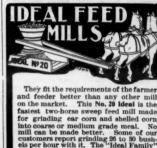
Consignments solicited and quick returns made, bur location the best in the city for top prices. forrespondence promptly answered. ST. LOUIS SEED AND PRODUCE CO., 1107 N. 3rd St., St. Louis, Me.



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customers report grinding 26 to 30 busic els per hour with it. The "Ideal Family of feed mills is a large one, embracin every variety. Write at once for catalog which illustrates and describes them al THE STOVER MFG. CO. 534 River St.,

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Two trains daily with all classes of modern equip-

The Burlington has the only train from St. Louis near the popular leaving hour of 9 p. m. for the West -Kansas City, Omaha, St. Joseph, Denver.

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Live Stock

DATE CLAIMS FOR LIVE STOCK SALES, Bhorthorns. & O. B. Cain and Jaz. No-vinger & Sons, Novinger, Mo., at Kirks-ville, Mo. Bhorthorns.

Set. 2.—A. Alexander and R. G. Robb & Bon, Morning Sun, Iowa. Shorthorns.

Oct. 18-17, 1901—Existe G. W. Kennedy,
Oct. 2.—National Galloway sale at Kan-sas City, under the auspices of the American Galloway Breeders' Associa-tion

glas, Ill., Shorthorns. Douglas, Ill., Shortnorms.

New. 54-B. O. Cowan, New Point, Mo., and W. T. & H. R. Clay, Plattsburg. Mo., at Kansas City. Shorthorns.

Nov. 5, 1901.—Combination sale Shorthorn Cattle, Sturgeon, Mo. J. J. Litrell, J. F. Keith and E. S. Stewart, Sturgeon, Mo., and J. H. Cottingham, of Clark.

ov. 12-12.—Purdy Bros., Harris, Mo., and D. L. Dowdy & Co., Arrington, Kas., at Kansas City, Mo. Shorthorns, ov. 19, 1901—L. A. Novinger & Sons, Bhorthorns, Kirksville, Mc.
Dec. 19, 11, 12 and I&-Kirk B. Armour
and Jas. A. Funkhouser, at Kansas
City, Hereford cattle.
Dec. 12,—C. D. Bellows, Maryville, Mo.,
at Bouth Omaha. Shorthorns.
Dec. 18-19, 1901—Gudgell & Simpson, C.

Stannard and Scott & March, Here A. Stannard and Scott & March, Here-fords, at Fort Worth, Tex.

January 28 to 31, 1902.—Sothams' annual Criterion Bale, at Kansas City, Jan. 14, 15 and 18.—Cornish & Patten, Os-born, Mo., and others, at Kansas City, Mo. Hereford cattle.

79h, 11-12, 1902.—Redhead Anisty, Boyles and others, at South Omaha, Neb. Here-ford cattle.

deatle.

A. Forbes & Son, Henry,
b. F. Prather, Williamsville, Ill.;
B. Prather & Son, Springfield, Ill.;
B. Dustin & Son, Summer Hill, Ill.;
J. Wornall, Mosby, Mo., and others,
Chicago, Ill. Shorthorns.
bl.—W. P. Nichols, West Liberty,
e. Shorthorns. Iowa. Shorthorns.
une 19.—C. E. McLane, Danville, Ind., at Indianapolis. Double Standard Polled

cer management of trollows: 20 1901.—East St. Louis.

Nov. 29-22. 1901.—East St. Louis.

March 5-27, 1902.—Chicago.

April 29-28, 1902.—Chicago.

May 27-29, 1902.—Chicago.

June 24-25, 1902.—Chicago.

Oct. 4.—J. W. Funk, Hayworth, Ill.

Eale at Ill. State Fair Grounds, Spring

Sale at III. State Fair Forunts, Spinsfield, III.
Oct. 7-11.—Kansas City Show and Sale.
Oct. 12.—R. T. Williams, Russellville, Mo.
Oct. 17, 18, 19, 21.—Americangora Goat
Show and Sale, W. T. Mointire, Sec.
and Manager, Stock Yards, Kansas
City, Mo.
Oct. 21.—G. E. Leslie, Memphis, Mo.
Oct. 21.—E. E. Axline, Oak Grove, Mo.
Oct. 21.—E. E. Axline, Oak Grove, Mo.

23.-J. T. Robinson, Bates City, Mo. 24.-F. H. Schooler, Rockport, Mo. 25.-W. N. Winn & Son, Kansas City,

B.—W. N. Winn & Son, Kansas City, Mo. 26.—T. H. Martin, Kansas City, Mo. 28.—C. E. Pogue, Findiay, Ili. 14.—J. W. William, Cisco, Ill. 15.—H. O. Minnis, Edinburg, Il. 17.—D. J. Walters, Kumler, Ill. 17.—D. J. Walters, Kumler, Ill. 18.—W. R. Loveless, Gibson City, Ill. 18.—W. R. G. Woodbury, Danville, Ill. 18.—E. H. Wane, Douglas, Ill. 14.—E. I. Jimison, Onelda, Ill. 18.—W. J. McKibben, Garden Prais, Ill. . III. — Victor Wiley, Fuller, III. — 20.—H. G. Davis, Woodland, III. 22.—J. B. Fink, Herborn. III. 25.—Kansas City, Mo. Galloway sale.

ABERDEEN ANGUS CATTLE. Oct. 4—Combination sale, W. C. McGav-ock, mgr., Springfield, Ill. Oct. 17-18—National sale, W. C. McGavock, mgr., Kansas City.

Dec. 3-6-International sale, W. C. Mc-

Gavock, mgr., Chicago. Feb. 4-6-Combination sale, W. C. Mc-Gavock, mgr., Chicago. Gavock, mgr., Kansas City. June 10-11—Combination pril 10-11-Combination sale, W. C. Mcnation sale, W. C. Mc-Gavock, mgr., Chicago.

NATIONAL SHORTHORN SHOWS

AND SALES.

Oct. 16-25-Kansas City, Mo. Nov. 15.—Kansas City, Mo.; Messrs. B. B. and H. T. Grooms of Staked Plains Farm of Panhandle, Tex. Nov. 7.—At Sturgeon, Mo.; by Messrs, J.

J. Littrell, Dr. J. F. Keith, E. S. Stewart, all of Sturge ham of Clark, M on, and J. H. Cotting-Dec. 2-7—Chicago, Ill. Dec. 5-6-Chicago NATIONAL HEREFORD SHOWS.

Sept. 21-26—Kansas City, Mo. Sept. 23-28—Louisville, Ky. Oct. 16-25—Kansas City, Mo. Dec. 2-7—Chicago, Ill.
NATIONAL HEREFORD SALES.

Sept. 24-25—Louisville, Ky. Oct. 22-23-24—Kansas City, Mo. Dec. 3-4—Chicago.

carried on:

VALUE OF A BALANCED RATION. In the September Bulletin of the Misuri State Board of Agriculture there is of the Balanced Ration sub a discussion of the Baisheet Reton sub-ject by Prof. H. J. Waters, Dean of the Agricultural College, a portion of which we present below, and which we com-mend to the thoughtful consideration of our readers. We also present above, by the courtesy of Secretary G. B. Ellis of the Board of Agriculture, ing where the experiments referred to

EXPERIMENTS IN WINTERING STEERS.—This matter of a balanced ra-tion has been under consideration for many years, during which time it has discussed in our agricultural pars, in the farmers' institutes and in builetins of the Experiment Station to such an extent that most farmers fully appreciate its importance and well under stand the principles involved. So if th ace here allotted to me were used in plaining these principles and in pointing out why a properly balanced ration will make a larger gain than one not properly balanced, you would say a the close, if you were entirely frank, tha understand this and grant all that has been said, but the important point is how to bring this about; what shall be used to balance this ration? When it is pointed out that the principal farm crops, such as corn, corn fodder, millet, sorg-hum, millet, timothy hay, wheat and oat straw, when used either singly or in com-bination with each other form an unbalanced ration, or one that is deficient in muscle making material, and that it is essential to add something else to such feeds to promote the best and most economical growth, the question would were fed under precisely the same condi- to fetter the coat of t anced ration, or one that is deficient in nomical growth, the question would naturally arise: What shall it be? If I should suggest that linseed meal, cotton seed meal, ship stuff and feeds of that different for each group, as shown in the market. seed meal, ship stuff and feeds of that kind be purchased, you would immediate-





CATTLE FEEDING YARDS AT THE MISSOURI AGRICULTURAL COLLEGE.

ly ask if these materials are not so gain in live weight, or that each bushel expensive that the extra gain obtained of corn produced 4.87 pounds of gain. way; third, J. & W. B. Watt, Salem, Ont. would fail to meet the increased cost with the ordinary class of stock. I am corn and cow pea hay ate rather more would fail to meet the increased cost with the ordinary class of stock. I am not addressing my remarks to the breeder of fine stock just at this moment, but to those who handle stock of the ordinary grade. It would be necessary to say that under many circumstances it would not pay to use these expensive feeds. For truntely, however, it is possible to remedy this difficulty to a large degree without the purchase of such feeds and without materially changing our system of farming, merely by giving more attention to some crops with which all are already more or less familiar, but do not fully appreciate. For example, we do not fully appreciate the feeding value of clover hay. We are appreciating the value of this plant in improving our land, but we have not come to fully realize the superiority of this hay over timothy hay in the feeding of young stock. We appear and under two—First prize, w. A. Boland; fifth, Bronson C. Rumsey.

(2) Another bunch of steers full fed on corn and cow pea hay ate rather more on experiment than did the other lot and gained for a pounds of 2.6 pounds per day, as was the case with those getting corn and timothy hay. In this case only \$2.1 km. Fortunately, however, it is possible to remedy this difficulty to a large degree without the purchase of such feeds and without materially changing our system of farming, merely by giving more attention to some crops with which all are already more or less familiar, but do not fully appreciate. For example, we do not fully appreciate the feeding value of clover hay. We are appreciating the value of this plant in improving our land, but we have not come to fully realize the superiority of this hay over timothy hay in the feedings of young stock. We appreciate the superiority of this hay over timothy hay in the feedings of young stock. We appreciate the feeding of young stock. We appreciate the feeding of young stock, we have a compared with those of the superiority of this ha value of this plant in improving our land, but we have not come to fully realize the superiority of this hay over timothy hay in the feeding of young stock. We appreciate the value of the cow pea as a soil renovator, but we do not appreciate the superiority of this hay over timothy and other such hays in making growth and gain and in putting finish and bloom on beef cattle. If we examine the tables prepared for us by the chemist showing the proportion of muscle making and fat forming ingredients contained in this was substituted for timothy the average.

[Authy attributed to the superior feeding way.

[Authy attributed to the superior feed with those of the previous year, and are worthy of the most careful consideration.

[Authy attributed to the superior feed with those of the previous year, and are worthy of the most careful consideration.

[Authy attributed to the superior feed with those of the previous year, and are worthy of the most careful consideration.

[Authy attributed to the superior feed with those of the previous year, and are worthy of the previous year, and are worthy of the previous year, and are worthy of the most careful consideration.

[Authy attributed to the superior feed with those of the previous year, and are worthy of the most careful consideration.

[Authy attributed to with those of the previous year, and are worthy of the most careful consideration.

[Authy attributed t

rming ingredients contained in this was substituted for timothy the average

COMPARISON OF DIFFERENT ROUGHNESS FOR FATTENING STEERS IN First Trial-Dec. 16, '99-April 14, 1900-119 Days-4 Steers in Each Lot

per Kind of Feed. daily ounds. 3813 802 1257 917 3662 1626* *Clover hay. †Corn fodder

class of feeds, we will find that clover hay will go a long way toward balancing such feeds as corn and corn fodder. If we examine the proportion of these ingredients in cow pea hay we will find that the limothy. With beef at 5 that this hay will go almost as far in this direction as wheat bran. I do not mean to say that the cow pea hay is a valuable as the bran, ton for ton, for it is not quite so digestible, but as far as literal and quite three—

Heifer, two years and under three—
First prize, C. G. Comstock & Son; second, James Hilton & Bro.; second, James Hilton & Bro.; second, James Hilton & Bro.; second, Stockwell & Gifford; fourth, W. H. Heifer, two years and under three—

Heifer, two years and under three—
First prize, C. G. Comstock & Son; second, James Hilton & Bro.; third, Stockwell & Gifford; fourth, mean to say that the cow pea hay is as valuable as the bran, ton for ton, for it is not quite so digestible, but as far as a balancing ration is concerned, it serves clover, the difference in favor of cow

rations balanced differently.

a valuable purpose.

This is not so only in theory, but a considerable number of dairymen in this feeding value of these two hays from and other states have found that by the reduce and in many instances entirely dispense with the larger bill for bran, etc., which they formerly had. One of the best dairymen in Boone County has not or a good quality, Byecial attention to the spendid gains three years, and tells me that he has produced more butter per cow in these years than ever before, and grows all the feed on his farm, viz: Corn, corn fodder and cow pea hay. You are, however, more interested in the results of careful feeding tests along this line. I therefore, invite your attention to the following table.

tests along this line. I therefore, invite your attention to the following table giving a summary of some of the feeding much cheaper gains, but the steers consists the subject to take up some other phases of feeding.

These results were obtained at the Experiment Station during the last two winters with two-year-old steers, in which an attempt was made to compare several different feeds, which furnished rations balanced differentity.

Not only do we have to credit to clover and cow pea hay the more rapid and cow pea hay the more rapid and cow pea hay the more rapid and more rapid and much cheaper gains, but the steers consumpt the steers consumpt these hays have always carried to cow, three years or over—First prize, cond, D. McCrae; third, D. McCrae; third, D. McCrae; third, D. McCrae, we wanted to compare the first prize, Otto Swigart; second, Otto H. Swigart; second, Otto H. Swigart; second, Otto Swigart; second, Otto Swigart; third, D. McCrae.

W. C. Brooks, Kansas, 103 canner cows, average 727 lbs, at \$2.55; also 122 canner steers, average 727 lbs, at \$2.55; also 122 canner with either clover or cow pea hay, the effect on the appearance of the steers was goond, Otto Swigart; third, Otto Swigart; second, Otto Swigart; third, D. McCrae.

W. C. Brooks, Kansas, 103 canner cows, average 727 lbs, at \$2.55; also 122 canner steers, average 727 lbs, at \$2.50; also 122 canner with either clover or cow pea hay, the effect on the appearance of the steers was goond, Otto Swigart; third, Otto Swigart; second, Otto H. Swigart, third, D. McCrae.

Heifer, calf—First prize, D. McCrae; defect on the appearance of the steers was goond, Otto Swigart; third, Otto Swigart; second, Otto Swigart; second, Otto Swigart; second, Otto H. Swigart; second, Otto H. Swigart; second, Otto H. Swigart; second, Otto H. Swigart; second, Otto Swigart; second, Otto H. Swigart; second, Otto Swi

SECOND TRIAL-JAN. 6, 1901-APRIL 16, 1901-106 DAYS-FOUR STEERS IN EACH LOT.

11.19 Corn and timothy hay ... 1.97 4768 4783 1135 Corn, clover and corn fodd 868† 2967* Corn. clover and wheat straw......169.0 1073 2.68

It will perhaps facilitate the study of CATTLE AWARDS AT THE PAN-

per

Sweepstakes, cow, any age—First prize, W. D. Flatt. W. D. Flatt.

HEREFORD—Herd—First prize, Clem

Graves, Bunker Hill, Ind.; second, C. G.

Comstock & Son, Albany, Mo.; third, H.

D. Smith, Compton, Quebec; fourth, W.

Black, Amherst, N. S.

second, C. G. Comstock & Son; third, C. G. Comstock & Son; fourth, Clem Graves; fifth. W. W. Black. Sweepstakes, bull, any age—First prize, H. D. Smith.

Sweepstakes, bull, any age-First prize, that brought \$3.15. D. McCrae.

Hartline, Strasburg, O.

Cow, three years or over—First prise, that averaged 1023 lbs, at \$3.65.

Andrew Bros.; second, Frank Hartline; Albert Kay, Kansas, markete Andrew Bros.; second, Frank Hartline; third, Andrew Bros.; fourth, Frank Hartline; fifth, Andrew Bros.

Albert Kay, Kansas, marketed 82 steers at \$4.00. They averaged 1162 lbs.

Wm. Hake, Kansas, 59 steers, average the; fifth, Andrew Bros.
Heifer, two years and under three—First

Wm. Hake, Kansas, 59 s

Wm. Hake, Kansas, 59 s

Heifer, two years and under three—First

prize, Frank Hartline; second, Andrew Bros.; third, Andrew Bros.

Heifer, one year and under two—First G. W. Conkey, Kansas, 58 1103 ib steers broken Bros.; third, Andrew Bros.
Heifer, one year and under two—First
prize, Andrew Bros.; second, Frank Hartline; third, Frank Hartline.

R. Wormser, Ka Heifer calf-First prize, Andrew Bros.; age 1071 lbs. at \$3.75.

second, Frank Hartline; third, Frank Hartline; fourth, Andrew Bros. Sweepstakes, bull, any age—First, Frank Hartline.

Fred Koster, Kansas, a bunch of 102 steers that averaged in weight 1073 lbs and brought \$4.25. HOG SALES.—J. A. Jackson, Missouri,

James Bowman. Sweepstakes, bull, any age-First prize, ers sold at a full range of \$21@60 pe

H. C. Allen.

Sweepstakes, cow, any age—First prize,

Southern Cattle—Receipts for
Southern Cattle—Receipts for

Heifer, two years and under three- Gifford; fourth, A. S. Worden.

First prize, A. S. Worden; second, James Hilton & Bro.; third, W. H. Davis; fourth,

nith, W. W. Black.

Sweepstakes, bull, any age—First prize,
H. D. Smith.

Sweepstakes, cow, any age—First prize,
C. G. Comstock & Son.

Helfer, one year and under two—First prize,
Rudd; third, A. S. Worden; fourth, Stock—Rudd; third, A. S. Worden; fourth, Stock—

Hilton & Bro.; fourth, W. J. Rudd; fifth,

Sweepstakes, cow, any age-First prize, bull, any age-First prize

with either clover or cow pea hay, the differ, calf—First prize, D. McCrae; ed Texas steers, average 942 lbs, that sold second, Otto Swigart; third, Otto Swigart; third, Otto Swigart; fourth D. Mcquerage 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for \$3.40; also 239 wintered Texas steers, average 998 lbs, that sold for wintered Texas steers, average 899 lbs Kennedy & Pumphrey, Indian Terri-

D. McCrae.
Sweepstakes, cow, any age—First prize,
Otto Swigart.
RED POLLED—Herd—First prize, Andrew Bros., Cedarville, O.; second, Frank
Hartline, Strasburg, O.

Kennedy & Pumphrey, Indian Termstory, 257 through Texas canners, average 33 lbs, at \$2.90.
H. M. Haiff & Bro., Kansas, 92 thorough Texas steers, fine quality, average 781 lbs, at \$3.50; 56 of the same kind, average 781.

Hartline, Strasburg, O.

Bull, three years or over—First prize, Frank Hartline; second, Andrew Bros.; his, at \$3.50; 56 of the same kind, average 75 lbs, at \$2.50; 22 wet cows, average 75 lbs, at \$2.50; 22 wet cows, average 150 lbs, at \$2.50; 22 good calves, average 166 lbs, at \$2.50; 22 good calves, average 166 lbs, at \$3.50; 56 of the same kind, average 750 lbs,

R. Wormser, Kansas, 22 steers, aver

It will perhaps facilitate the study of these results somewhat if we compare the gain of each bunch of steers with the bunch that was fed corn and timothy hay. This is a standard ration the country over for fattening cattle, and for this reason it is selected as the standard in these experiments.

(1) It will be observed that the four steers getting all the corn and timothy hay they would eat, gained 302 pounds in 119 days, or at the rate of 1.69 pounds of grain were required for each pound of steers and under three—First prize, the size of the standard of the standard in these results somewhat if we compare the gain of each bunch of steers with the bunch that was fed corn and timothy hay they would eat, gained 302 pounds in 119 days, or at the rate of 1.69 pounds of grain were required for each pound of

D. Edson; third, A. C. Green & Sons.

For third, Frank D. Edson; fourth, Frank D. Edson; fith, Mrs. S. A. F. Servin; second, Frank E. Sanders; third, Frank D. Edson; fith, Mrs. S. A. F. Servin; second, Frank D. Edson; fith, Mrs. S. A. F. Servin; second, Mrs. S. A.

Bull, one year and under two—First prize, James Blair; second, H. D. Allen., Bull, under one year—First prize, James Blair; third, D. Bradfute & Son; fourth, H. D. Allen; fifth, F. W. Phillips.

Cow, three years and over—First prize, James Sow Market, School and the weather he thinks favorable to a description of the weather he thinks favorable to chologous distribution of the weather he thinks favorable to chologous distribution fourth, James Blair; fifth, D. Bradfute & fair cows, \$2@2.40; inferior, light and old Son.

Heifer, one year and under two—First cows sold at \$2.25(2.5) and the bulk of the southwest the cows sold at \$2.25(2.5) and the bulk of all the cows sold at \$2.25(2.5) and the bulk of the southwest that the cows sold at \$2.25(3.4); canning cows full tasses that \$1.62.25; weal calves, full range, \$2.25\$ H. C. Allen; fifth, H. C. Allen; sixth,
James Bowman; seventh, W. H. Davis.
Heifer calf—First prize, H. C. Allen;
second, D. Bradfute & Son; third, James
Blair; fourth, D. Bradfute & Son; fifth, bulk at \$3@3.50; during the week the milk-

W. Black, Amherst, N. S.

Bull, three years or over—First prize,
H. D. Smith; second, W. W. Black;
third, C. G. Comstock & Son, Albany,
Mo.

Bull, three years or over—First prize,
W. H. Davis; third, James Hilton & Bro.

Bull, three years or over—First prize,
W. H. Davis; second, James Hilton & Bro.

Bull, three years or over—First prize,
W. H. Davis; second, James Hilton & Bro.

Bull, three years or over—First prize,
W. H. Davis; second, James Hilton & Bro.

Bro.; third, A. S. Worden, Ulysses, Pa.;

Bro.; third, A. S. Worden, Ulysses, Pa.; Smith.

Bull, one year and under two—First prize, C. G. Comstock & Son; second, W. W. Black; third, H. D. Smith.

Cow, three years or over—First prize, C. G. Comstock & Son; second, H. D. Smith; third, Clem Graves; fourth, W. W. Black; third, H. D. Smith; third, Clem Graves; fourth, W. W. Black; third, H. D. Smith; third, Clem Graves; fourth, W. W. Black; third, W. J. Routher two—First prize, C. G. Comstock & Son; second, H. D. Smith; third, Clem Graves; fourth, W. W. Black.

Bull, one year and under two—First prize, C. G. Comstock & Son; second, H. D. Smith; third, Clem Graves; fourth, W. W. Black.

Bull, one year and under two—First prize, C. G. Comstock & Son; second, H. D. Smith; third, Clem Graves; fourth, W. W. Black.

Bull, one year and under two—First prize, James Hilton & Bro.; second, W. Black and the market ruled steady on heavy calves and bulls have been prize, James Hilton, Eden liberal and the market ruled steady on heavy calves and bulls have been prize, James Hilton, Eden liberal and the market ruled steady on heavy calves and bulls have been prize, James Hilton, Eden liberal and the market ruled steady on heavy calves and bulls have been prize, James Hilton, Eden liberal and the market ruled steady on heavy calves and bulls have been prize, James Hilton, Eden liberal and the market ruled steady on heavy calves and bulls have been prize, James Hilton, Eden liberal and the market ruled steady on heavy calves and active and strong on the liberal and the market ruled steady on heavy calves and active and strong on the liberal and the market ruled steady on heavy calves and active and strong on the liberal and the market ruled steady on heavy calves and active and strong on the liberal and the market ruled steady on heavy calves and active and the market ruled steady on heavy calves and active and the market ruled steady on heavy calves and active and the market ruled steady on heavy calves and active and the market ruled steady on heavy calves and active and the market ruled steady on heavy calves

D. Edson; third, A. C. Green & Sons; ST. LOUIS NATIONAL STOCK YARDS, fourth, Mrs. S. A. F. Servin.

Bull, one year and under two—First prise, Frank R. Sanders; second, Mrs.
S. A. F. Servin; third, Frank D. Ed-

ENGLISH Red Polled Cattle.

But Pure blooded and extra

fine stock. 22 Your orders solicited.

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POLAND-CHINA HOGS

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RAVENSWOOD HERD SHORTHORNS. 125 head in herd. 20 bulls for sale from 6 to 16 months old. Scotch and Scotch top ped. Herd headed by (Lavender Viscount 124755), the champion Shorthorn bull of the Kansas City Show, 1900.

C. E. LEONARD, Bell Air, Mo. ED. PATTERSON, Manager. R. B. and telephone station, Bunceton, Me

Shorthorn Cattle,



Gentry Bros. Codar Valo Stock Farm SEDALIA, MO.

Grand Duke of Hazelhurst 185484, assisted by Waterioo Duke of Cedar Vale 133685, heads our herd of pure Bates and Bates topped, gure Scotch and Scotch topped cows of the most fashionable fami-ies. Stock for sale at all times at reasonable prices. Parties met at train. Farm two miles out. Telephone No. 20

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Registered Herefords. BELTON, MO.

HEREFORDS Gudgell & Simpson, 600 HEAD IN HERD.

Independence, Mo.

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National - Stock - Yards. C. G. KNOX, V.-Pres. C. T. JONES, Gen. M'gr. L. W. KRAKE, As'st. Gen. Mgr. Shorthorn Cattle. Scotch, Scotch Topped, Bates and Bates Topped.

As good blood as the breed contains. Imp. Nonparell Victor 132073, Imp. Blackwatch 153334, Grand Victor 115753 and Windsome Duke 11th, 121622, in service and large English Yorkshires. Young stock for sale. Come and see or address.

Blackwater Shorthorns. F. M. Marshal, Prop. BLACKWATER, Cooper Co., Me. Herd beaded by the Oralokshank Bull. Orange Hero 182,885 by Godoy. Females are of pure Societh and pure Bates, with individual merit the standard. Young stock of bots are for sale.

ORTIZ FRUIT FARM, MEXICO.
SHORTHORN CATTLE of pure Scotch, Bates and leading American families. BERKSHIRES of leading families of the breed. English Setters and Scotch Terriers that have been winners at leading bench shows of this country. Stock of all kinds for sale. Visitors always whenever.

SHORTHORNS, BERKSHIRES and JACKS Shorthorns Scotch or Scotch Top and Bates mostly. Berkshires best blood in America and England Stock of all ages and both sex for sale. Call on or address,

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LINES OF BREEDING—"The Casey Mixture," Cruickshanks and other Scotch eattle, Bates and Renick Rose of Sharons.
HERD BULLS—"Imp. Cellynie 135022, bred by Wm. Duthie; Imp. Blyths Victor 140803,
bred by W. S. Marr; Aimiral Codey 133372, bred by Col. C. E. Leonard; Victor Bashful
152797, bred by J. R. Crawford & Sons; Victor Abbett, bred by T. J. Wallace & Son,
and Scottish Leventer, bred by Hanna & Co.
Address all correspondence to

E. M. WILLIAMS, Manager, Shawnee Mound, Mo.

Horseman



important points in grooming

Admiral Dewey, 2:14%, the great three-Admiral Dewey, 2:14%, the great three-year-old, by Bingen, 2:06%, out of Nancy Hanks, 2:04, was drawn from the Horse Purse owing to his having strained the sheath of one of his fore ten-dons in the race at Readville. He has been placed in temporary retirement, but it is believed he will be ready for his later

39,400,000 horses, 3,200,000 mules, the United States there were January 1,

Volume XV. of the American Trotting Register. The book contains eight hundred pages of valuable and in-teresting information, and is an important and highly appreciated addition to our library. The number of registered stal-lions has reached 34,299, showing an in-crease of 3,900 since the date of issue crease of 3,900 since the date of issue of the last volume, which was pub-lished in 1898. As a book of reference the register is almost indispensable.

Listerine, the fast trotting mare from California, being campaigned in the East

When a trotter grows sore-toed, or is

"No foot, no horse," is an old and very feet. They should be long, even in size, straight, horn dense, dark in color, sole concave, bar strong, frog large and elas-

having been entered under no less than seven fictitious names. Reynolds has probably rung his last ring. At the same meeting Frank Derby, 2:14%, was proven to be a ringer and his owner was

this spring with a string of trotters and 2:06%, to Nancy Hanks, 2:04—and got Adpacers that were thought good enough to win a share of the money through the Grand Circuit, but one by one the horses went wrong, and the stable has been shipped to Texas. Foote at one time was son will not be overlooked by other breedson will not be overlooked by other breed-

for most of the trace traces and from now on the freak trotsing, and from now on the freak trotsing, and from now on the freak trotsing, and from now on the freak trotsing sportsman and has spent so much money at Forbes Farm, that it is gratifying to few men will attempt to combat the freed of the success of his breeding venture.

Sportsman and has spent so much money and am Charm, by Trusty, son of Mambrino Patchen 2d, dam by Joe Elmo, 3d dam Capt. Bowles, b. g., by Misdeal, by Blackwell's Hambletonian, sire of the dam Mollie B. (J. Friend)......3 ters will be few and far between. A few men will attempt to combat the laws of nature and breed trotters by using the blood of horses that are not bred to trot and that cannot trot, but uccess from such methods will come only

run away a new method of restraint has just been adopted in Paris. The motor

GOMBAULT'S Caustic **Balsam** Bunches or Blemishes from Horses
SUPERSEDES ALL CAUTERY
Impossible to produce some or blemish 77 bottle sold is warranted to give satisfaction \$1.50 per bottle. Sold by druggists, or 7 express, charges pales, with full directions a use. Send for descriptive circulars. HE LAWRENCE-WILLIAMS CO. Cleve

car is responsible for frightening horses which have bolted and caused fatal acci-dents in the gay city, and the Prefect of Police is experimenting with a new invention. An extra pair of blinkers are nted on the ordinary blinkers and we and inclined to run away, the driver lively pulls the rein, the extra blinkers ail into place, and the animal is completely blinded. It is contended that the nost vicious or nervous horse would be covered by finding itself in complete darkers, and the experiments are said to ave proved eminently successful.

| Manual of the pull of the province of the province of the province of the province of the pull of t

More pacers than trotters are seen at a majority of Western meetings, and why? Not that the pacing bred pacers outnumber the trotting bred trotters, for a majority of pacers are strictly trotting bred. The hopple craze is responsible for the condition mer tioned. Quite a number of horses bred to go fast are bad-gaited; to make them good-gaited in the old-fashioned way takes time. Nowadaya they have their legs tied together with straps, are pounded on the back from wire to wire, and to nine cases out of ten get the money. By some this thing is called racing alovatngagements.

There are in the whole world about 15,80,000 horses and 11,000,000 mules and
sses. They are distributed as follows:
lurpus 39,000,000 horses. 3,200,000 mules.

"I believe that before many years we ett.; America, 2,260,000 horses, 4,700,000 mules, etc.; Asia, 9,10,000 horses, 1,500,000 horses, 4,700,000 horses, 1,500,000 horses, 4,700,000 horses, 4,700,000 horses, 1,500,000 horses, 4,700,000 horses, 4,700 "The discussion of evolution was what the United States there were January 1, 199, 13,500,000 horses and 2,000,000 mules and asses.

We take pleasure in acknowledging receipt of Volume XV, of the American Country of Volume XV, of the American could, for it has been carefully bred with certain object in view for many years. I rather anticipated that the trotter would be the first to go under two min-utes, but the pacer has beaten him. I predicted that the trotter which would do the mile in two minutes would appear in the decade from 1900 to 1910, and I believe that my prediction will be ver-fied. Later on my prognostication con-cerning the 1:55 trotter will be verified."

In many respects the exhibition of har California, being campaigned in the East by Trainer C. E. Clark, after finishing 7-8-5-7-dis. In the 2:14 trot at Providence, R. I., Aug. 30, was taken violently sick and died the next day. She was a 7-year-old bay mare by Athadon, 2:27-Listerine, by Challenger, and early in the season in the west had shown herself a good and game mare taking a record season in the west had shown herself side watches caught it even faster. It good and game mare, taking a record professional wagon record for pacers of 2:13% at Des Moines, in July. Coney's, 2:03%. But the truly marvelous When a trotter grows sore-toed, or is outclassed, he may be set pacing and add another roll of bank notes to his credit column. The bay gelding Scraps, 2:1½, by Karatas, owned at Marysville, Kas, has been earning a little money each season since 1894. Last winter he was changed to pace, and at Beatrice, Neb., Aug. 23, made his first start of the searson, winning the 2:29 pace in straight heats and securing a record of 2:19½. casion.

Dan Patch is so far ahead of his clas true saying. Perhaps no part of the heavy horse wears out sooner than his is usually barred in the betting. The son of Joe Patchen is a phenomenal per-former, and easily the best pacer of the season of 1901. He is also regarded as a tic, heel wide, high and width equal to one-half the length from heel to toe. Too much stress cannot be laid on having a large, round foot, especially wide at the heel. Buyers of heavy horses for the New York markets are very particular in this respect.

Ringing is a penitentiary offense in season of 1991. He is also regarded as a formidable performer for the two-minute mark for 1992. Dan Patch is the only stone in the path to glory of Council Chimes, owned by A. H. Miller of Butfalo. If Dan Patch was out of the way Council Chimes would have first mortages on the 2:14 pacing stakes. Upon several occasions plane and patch trimmed. penitentiary offense in several occasions has Dan Patch trimmed Felix Reynolds, an old horse- Council Chimes, but the latter horse is man of Cleveland, O., who has defied the American and National Trotting Association from than a year, has been run down and caught at Port Huron, Mich. He has been ringing with Jerry W., he races, Council Chimes has won easily and

Commodore J. Malcolm Forbes bred extreme speed to extreme speed-Bingen, this spring with a string of trotters and 2:06%, to Nancy Hanks, 2:04-and got Adthe greatest money winning trainer of the trotting turf; that was when he had Rilma one season and John Noian the next. But such horses do not stumble into a man's lap every "bright day"—one form. If Admiral Dewey is kept in traininto a man's lap every "bright day"—one form. If Admiral Dewey is kept in training and escapes accident, there is no reason why he should not trot to a faster recommendation of the "Horse World" well says: "So far there have been an notable freaks among the fast trotters of the year. Scientific breeding in tried trotting lines and in a large number of cases with developed sires and dams is responsible for most of the track trotters now raccommodor Forbes is such a high-spirited sucking filly, on black filly by Plano, Wilkes, dam Hildegarde (S.

ALADDIN KANSAS BRED.

The writer of "Blue Bull Notes" for the rule."

Colman's RURAL WORLD takes "Colmon's RURAL WORLD takes "Colmon's RURAL WORLD takes "Colmon to the chest-on towa readers concerning the chest-on the winter of Blue Bull Notes for Colmon's RURAL WORLD takes "Colmon to the chest "Colmon to the Colmon to the C pace at Des Moines, and extensively entered at other Iowa meetings, says Columbus. Hidalgo is entered by Mrs. M. A. Johnson of Kansas City, Mo., and those having him in charge claim that he is idence of an owner controls the nativity only a buggy horse that stepped a mile right off from the streets in 2:18. A din is a Kansas bred norse. While it is true that His was mated with Hambletonian 10 at the stable of William Rysdyk, Chester, N. Y., still it is commonly held that the residence of an owner controls the nativity of the foal. This being true, then Aladright off from the streets in 2:18. A din is a Kansas bred norse. friend at Eddyville, Ia., writes that Hidalgo is good for a mile in 2:12 or better. Shawnee County, Kansas. Mr. Clement and has the "earmarks" of a ringer might send a daughter of any son of The breeding of Hidalgo is given as "un-Blue Bull to Kentucky and mate it with known," although he is reported to have come from Los Angeles, Cal., about two years ago. We are unable at present to locate the horse.

For horses which are easily excited and erous instances similar to that of Alad-Horse Owners! Use

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Horse Owners! Use

Horse Owners! Use ranch, located in Cowley County, Kan-sas, Mr. Perkins resided in Indiana, his farm being in Cowley County, Kansas, Another case is that of the Jewett horses, a large number of which were bred upo the ranch in Sedgwick County, Kansai but credited to Jewettville, N. Y.-West

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BLUE BULL NOTES.

By L. E. Clement.

Editor RURAL WORLD: Pentiand, 2:16 to Wordswood, dam Littlefield, dam of Grace B., 2:23%, by Endeld 12S, grand dam Gasette, by Idol 17f, sire of Manusanillo, 2:17fb, at Oklahoma City, Ok., Sent. 8, 1900, and Clara B., 2:39f, Bept. 17, 1901, at Carthage, Mo. Pentland das not appear in the last Year book as a sire, but in list of performers Mansanillo spears as said to be by Pentland. Mr. Granger campaigned her as a two-yearful with her sire.

Integrity, by Capoul, 14 years of age, with Chancy Sumner of Galena, Kansas, up, reduced his record to 2:24fb, at Carthage, Mo., Sept. 20. Mr. Summer drove You Bet (4p, 2:123fb, in 2:14fb, over the halfmile track at Carthage when the track was muddy, consequently it was both heavy and slow.

In his mile, which is the track record, In the mile, which is the track record.

Hasel Grant, by Manville, dam by State in the Union. We can study this and improve on it. A tuturity stake as suggested last week we were had ill this unprecessing the went to a local charity.

The weather was perfect, but the track was only stored to shear to records were proposabled. The fastest time, that in the last heat, was only 2500 persons paid to see the event all went to a local charity.

The weather was perfect, but the track would name mares this fall for such as two the less the nearly sould name mares this fall for such study, so that in a records were three with the second should be a hummer.

MEMPHIS (MO.) FAIR.

By Mambrino, Jr.

Editor RURAL WORLD: While the second should be a hummer.

By Mambrino, Jr.

Editor RURAL WORLD: While the winter would like, for the sake of old farms, state in the last heat, was only 500 polly Dillon, Cornella Belle, Dr. Book and Clara B., 2:29fb, in the crowd and seemed to lead to the conclusion that The Abbot has not recovered from his sickness of last spring. He broke repeatedly and lost the science of the sake of of Aliright, a sire and the stack was disappointing to a large three of the crowd and seemed to lead the exceed nted on the ordinary blinkers and by Wedgewood, dam Littlefield, dam of back by a spring, which is contept back by a spring, which is con-trolled by an extra rein passing between the ears of the horse to the hand of the coachman. When the horse becomes res-dive and inclined to run away, the driver

of Lillian C., 2:23¼ in a winning race at La Mars, Ia. This, with Pentland, will

Can any brood mare equal this record of being the dam of two winners at the age

papers, it is a good time to stop it.

Year Book, Vol. 8, page 524. Fourth name from top find Schalble Girl, foaled piece of pacing machinery I ever saw. 1885 by Bobby, dam by Whiteline 2144.

Then turn to Vol. 8, Part 1, page 55, and find August 18, 1892, Chicago, Ill., purse to the same properties of the same finite was limited. The ladies vied with the same page 18 and 19 an

brood mare in several futurities. Don't forget the pacing blood in formulating your trotting pedigrees, or you may, ill. of General Tracey and others, work for years with small results.

Tommy Hall of Carthage, Mo., has bred his mare Borny Doon, dam of Victor Doon, 2:244, and Capt. Doon (trotter) 2:344, to Anteros. Bonnie Doon was sired by Herschel, dam Cora, by Blue Bull. I paid her breeder, J. M. Leet of Maryville, Mo., \$1,000 for this mare as a yearling, Of five colts her first three have shown ability to enter the list. The second, a double-gaited mare, is owned by Jim Luke, the mine expert of Carthage, Mc. He is thinking of having her campaigned as a pacer in 1902.

Fair. Theodore H. Coleman, the starter, and all around horseman, is secretary. His program of five days was as fol-

Monday, September 9: 2:24 trot (early closing), 25 entries....\$3,001 Douglass T. g. g., by Free Deal, 2:25 trot, 3 in 5, 20 entries..... Third day: 2:10 pace (early closing), 14 entries, 3 Fourth day:

Fifth day: Free-for-all pace, 2 in 3, 6 entries...\$1.206 2:14 class trot, 3 in 5, 30 entries....1,206 2:10 class pacing, 2 in 3, 20 entries....1,250 There is no reason why Missouri should YourHorse may "throw a curb," "start a splint," "sprain a cord," "de-velop a spavin, thrush, or grease heel," etc. They are all bad, but don't be alarmed. Get a bottle or two of Tuttle's Elixir.

Dr. S. A. Tutile,

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think your Elizir the best liniment ! think your sales us on a concerned to the commod it to any one.

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Beware of an allold Elixin—acce gentles but Tuttle's.

to a break and fell back to last plactory of the terminal paperprinted the terminal paperprinted the terminal paperprinted to a break and fell back to last plactory of the terminal paper prometer of the every state of the terminal paper prometer of the every state of the terminal paper prometer of the every state of the terminal paper prometer of the every state of the terminal paper prometer of the every state of the terminal paper prometer of the every state of the terminal paper prometer of the every state of the supreme effort in the same for the supreme effort in the supreme effort

He didn't do a thing but hit the pike on give Wedgewood 16 sires for the next Year a Joe Patchen pace and has been going Book.

"Anagallia, by Prodigal, out of Annie Wilton, is the dam of Gavotte (3), 2:27%, this season. His mark of 2:30 will but this season. His mark of 2:30 will but can go. Has given him a mile in 2:12 cad easy and is lying on his oars. Is owned and driven by R. G. Terrill, Huntsville, Randolph Co., Mo. I don't give As this has gone the rounds of the turf this story from personal knowledge, but

Wooloomooloo, gr. h., by Pilot Medium 4 3 Axle, bl. h., by Axtel. 2 4 Jr Hannah Medium, gr. m., by Pilot Medium 9. m., by Pilot 10. m. and 10. m. in the thermal state of the day's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's races, which 9. m. in the thermal state of the day's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's races, which 9. m. in the thermal state of the course to send me the "score ard" of Filday's races, which 9. m. in the transmit of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's races, which 9. m. in the transmit of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of Filday's program. I arranged with Mr. 2 Metro Clark of the course to send me the "score ard" of the course to send me the "score ard" of the course to send me the "score ard" of the course to send me the day's program. I arranged with Mr. 2 Metro Clark of the course to send me the day's program. I arranged with Mr. 2 Metro Clark of the course

Strong Horse, a large gray pacer, pedi-spree not traced, dam not traced) has held that honor, and now her daughter, Mam-brino Swift (2), 2:26%, is entered as a brood mare in several futurities. Dor't forces the brook a mark of 2:33% over a very heavy track and demonstrating his ability to easily enter the list this season. Another piece of good news for the farm comes in the

Victor Ene won the blue ribbon in September 12, 2:50 class, trotting, purse

..1 1 2 1

by Blackwell's Hambletonian, sire of the dam of Review, 2:24%, New York State; Fair. Theodore H. Coleman, the starter, and all around horseman, is secretary. His program of five days was as fol-Time-2:36%, 2:33%, 2:42, 2:38. September 12, 2:25 class, pacing, purse

> ...2 2 2 by Sunset, dam

Time-2:221/4, 2:241/4, 2:24.

September 13, free-for-all class, pacing purse \$150: Douglass T. g. g., by Free Deal, dam unknown (R. G. Terrill). Maronial, ch. m., by Baronial (Pet-

tegrew)

Iowa Boy, ch. g. (E. S. Martin)..

Time—2:20, 2:20, 2:21. CRESCEUS AGAIN BEATS THE AB-BOT.

Readville, Mass., Sept. 23.—The great stallion, Cresceus (2:02%), obtained a firm-er grasp on his crown as king of trotters by defeating his only rival. The Abb

of detecting ins only rival, The Abbot UTEL (26%), on the Readville track to-day in three out of four heats.

The two fastest trotters in the world read for a \$3,000 purse offered by Thomas W. Lawson, and the money which the When writing them,

Dan Patch, br. h., by Joe Patchen (McHenry)

Paulding Boy, b. h. (Vogle).. Time-2:09, 2:07, 2:11. KENDALL'S SPAVIN CURE

Damon, Brazoria Co., Tex., June 6, 1900. DR. B. J. KENDALL CO. a consumer of your valuable liniment for some ten years past, must say it is good for both man and beast for many all-

rom horses. It can't be done in a single swelled at top of hoof to first joint. is apparently on the mend, but the triple turns out to be all that is tongue is peeling off; also her mend."

with the return of more prosperous times a greater demand for horses of a desir-able type has been created, and offerings able type has been created, and offerings that formerly went begging at \$100 can Van Hay's query. not now be bought for three times that amount. Many persons who could not afford a stylish stepper during the period of financial depression are now in a and drinks water sometimes. It has some position to luxuriate in fine horses and fever. So ance of a horse. It is demanding horses of a good type, sound, good looking, combining style and action, and will not be satisfied with anything short of this cattle appears to have assumed, in our Let the breeder remember this when he sends his mares to the stallion paddock hear of its prevalence everywhere next year. The owner takes no risk quite a number of cattle have died. The when he breeds a good mare to a good sire, for in the event the fates decree that running its course in from one to two the result shall not become a racing maweeks. The animal is unable to manipuchine, it is sure to find a ready sale as late its tongue sufficiently to take food a horse adapted to other uses. a horse adapted to other uses.

ents. Yours very respectfully,
JOHN W. KILSBY.

DEMAND FOR GOOD HORSES.

The marked scarcity of really sound corses suitable for the market, will doubtless lead to a very general revival of the breeding industry in 1902, and the indications are that good stallions everywhere will receive a most liberal patronage, says Kentucky "Stock Farm."

In the current issue of Harren, Wester, Can you discussed them when they got an opportunity. I have been told it was caused from feeding too much wheat. I feed one-half gallon ground wheat with sheaf oats and grass at night. In the current issue of Harper's Weekly Can you diagnose this case or give ren is a thoughtful article from the pen of E. S. Martin, in which he traces the E. S. Martin, in which he traces the scarcity of horses primarily to the scarc of several years ago when the idea large-ly prevailed that electricity would soon render the horse unavailable. The assurances that such a condition would eventually, if not speedily, result from the inventive genius of America were taken seriously to heart by many breeders and other people, and as a matter of precarother people, and as a matter of precau-tion fewer colts were raised than former-lingly. Her nose and mouth swelled up

getting thin in fiesh. Please give me a cure and the cause of the disease. Cass Co., Mo. W. P. VAN HAY. The Germans call this disease "wood-

en tongue," from the fact that the tongue mes stiff. This condition is caused by the tumors or fungl, which penetrate this member, callosifying it. Treatment: In ject the tongue in numerous places every third day with a dram dose of tincture of iodine, using a hypodermic syringe for

Editor RURAL WORLD: I wrote you some time ago about a cow, the milk of which was hard to churn. Allow me to inform you that you diagnosed her case completely. As I am again in trouble here is another letter of inquiry:

VETERINARY INQUIRIES.

SORE EYES IN HORSES, CONJUNC-TIVITIS.—My horse's eyes became sorthree weeks ago. The lids are slightly swollen. A mattery substance forms in the lower corners. The lids apparently itch, as the horses rub them when the

ly, thus creating the dearth of horses of complained of. The article referred to concludes with the statement that "its is going to take time to wean humanity acted as if foundered in her feet. They Possibly the real cause of the scarcity On inquiry I find several of the neigh resistify the real cause of the scarcity of horses had its origin in the era of low prices that followed the panicky times that started in 1889, when not only three that started in 1889, when not only three that started in 1889, when not only three thr

Barry Co., Mo. A SUBSCRIB A SUBSCRIBER.



Safety Hoof Shield



Sent Postpaid on receipt of 50c per pair: sizes run SAFETY HOOF SHIELD CO., 141 Elm Street, N. Y.

CURED BY Absorbine, Jr. A patient writes: He

as thrown from his bicycle, wrenching his knee. Within a few hours the pain was knee. Within a few hours the pain was so bad he could not use the limb. He applied ABSORBINE, JR. The next day he rode 42 miles without a sign of soreness. This unequalled Liniment costs only \$1.00 per bottle by mail.

W. F. YOUNG, P. D. F., SPRINGFIELD,

AUCTIONEERS.

JAS. W. SPARKS, Marshall, Mo. Am selling for the best breeders everywhere. Posted on pedi-gree and individual merit. Terms low.

R. W. MITCHELL,

LIVE STOCK AUCTIONEER, GENTRYVILLE, MO. 15 I breed pure bred cattle and hogs, my host of patrons say I know how to sell them. Write for terms and dates.

R. L. HARRIMAN, Live Stock Auctioneer Bunceton, Mo. Up-to-date in every particular. Am selling for t best breeders in the country. Terms low.

HARRY GRAHAM, CHILLICOTHE, LIVE STOCK AND GENERAL SALES
Auctioneer.

J. WEST JONES, LENOX, IOWA, and CAREY M. JONES, DAVENPORT, IA IOWA'S LIVE STOCK AUCTIONEERS

PRACTICAL LIVE STOCK AUCTIONEER. Sales Cried Anywhere. Write for Date CHAS .W. ZWILLY, Fremont, O.

Clover Leaf Farm HEREFORDS

From the best imported and native strains. Farm, attackers in the strains farm. Visitors met at depot if desired. Correspondence solicited. Young stock for sale at all times. W. G. SWINNEY, Bols D'Arc, Mo., Greene Co. on Memphis R. R.

Jacks, Jennets and saddle Studs for sale.

LONE RETREAT STOCK FARM, Lawson Mo.

CATALOGUES for Shorthorn sales compiled or THOS. P. HALL, Breckenridge, Mo

bran or hay, so that the danger of the disease lies in the fact that the animal starves if not watched and personally cared for. It can and will eat corn, but the nubbin must be placed well back in the mouta; green corn fodder cut up three or four inches long and fed same as the nubbins will help so that you will be able to save the cow. Very often the teats of a mich cow become very sore; if she is suckling a calf it must be taken away and the cow milked by hand; other cows become sore in the feet and act as though they were foundered and unable. though they were foundered and unable to travel, consequently all animals affected must be taken out of the herd, placed in a paddock close to the house and fed by hand. Be careful not tokick or strike affected animals, for their tissue is in such condition that if bruised it is liable to slough, causing a deep and ugly wound, and such wounds are tedious to heal as a rule. The animals do not require any internal

medicine, the disease being solf-limiting and runs its course. All that is necessary is to feed them liberally by hand and to sponge the nose, mouth, tests and any other sores that appear with the following: Honey a teacupful, borax two ounces, ive both in one gallon of water that

If your horse has knocked a leg, AB-SORBINE will right him quickly. Used full strength and as a wash. Receipt on bottle. S per bottle at regular dealers. Mfd. by W. F. YOUNG, P. D. F.

ove firm are sole owners of registered Distillery No. 21 of the Sixth District of criting them, please mention COLMANS RURAL WORLD.



Written for the RURAL WORLD. CIDER MAKING TIME.

the wagon piled.

Hauling home the loads of apples is a

task that all enjoy.

From the horses to the master—to any nothing of the boy!

CLIFF REMINISCENT SKETC

lowed to eat their fill

wait upon the hill huge mouthful of succulent young grass

They snatch in the cool shadow of the ented sassafras.

the cider press whirrs gayly and

So away with gloom and sadness! Punish

fretting as a crime:
for earth has reached the Golden Ago
at cider making time.
St. Louis Co., Mo. ADELA S. CODY.

Written for the RURAL WORLD.

(Concluded from last week.)

In the room across the hall lies the dainty shell which was the abode of a young, innocent, beautiful soul only this but now has winged its way still live on in a more perfect above to still live on in a more perfect world, after the shell shall have mingled with the earth, undistinguishable from it. How perishable is the outward beauty;

plucked, leaving the would bleeding. The tree droops and for a time it seems impossible to heal the wound from the loss of its flower, its like sap, for here, too, lies, apparently, the shell with the soul fled, the life spark dead. But not afterwards two of the burglars were captured. One of them confessed to particle the state of the state the soul is still there, for the kindly min-istration from the tried and faithful Hannah, at last prove this. The cyclids quiver, then open, the hands move lan-quidly, find their way to have far here far hands. guidly, find their way to her forehead, where she pushes back the hair, as if its weight there were too much. At first she is bewildered, but soon with returned consciousness, all the sad reality crowds itself upon her mind, and she springs to

oan do no good yoah gwin' on like
Mars Edgley will be comin' home
ight, an'—" At this juncture oid to-night, an'doorway stands a wee figure in white, with them at the schoolhouse? Many about seven, with a ray of hasy declining sunlight brightening the golden curls, which fall in unconfined disorder over her har name, and the reports brought home which fall in unconfined disorder over her her hard. shoulders. The child has an expression the teacher, the parental heart is at ease of half fear, half appeal, and as she stands framed in the doorway, with the beautiful sunlight reflecting its fading glory upon her, she seems an inspiration from an artist's hand. Hannah points teacher, but never let it be established

she having felt a childish awe and fear of intruding on her mother's sor-row. Mrs. Edgerley took the wee one It may disconcert the teacher, and flurry upon her lap and smothered down the re-the children. My word for it, the chilbelilous curis. There steals from the belilous curis. There steals from the bullous as before you burning eyes a tear. Slowly it rolls entered. But you will have manifested your interest and that will stimulate your said mamma. angelic face of the beautiful child mother's tear on the face of her liv-

is that why you feel so bad?" will come home to us to-night, and to- be more painstaking.

their greatest affliction, she became a soothing balm to this strong man's grief. Home Circle their greatest affliction, she became soothing balm to this strong man's grief the following day after they had left the cemetery and are again at home (oh that sad, lonely first home coming after a dear familiar form has left us) though she is desolate and lonely, she felt the invisible and ineffable presence

this favored clime

There is none more to my liking than clder making time.

We will now leave them, husband and wife, to comfort each other. When sleep at last comes and closes their eyes, the cider making time.

When the winds in dappled orchards shake the glowing fruitage down,
Like gems of richest lustre from some hope, which in solemn, sweet refrain floats out on the air and is caught up and floats out on the air and is caugh Ev'ry one is blithe and busy from the farm hand to the child,

As the fragrant fruit is gathered and in their sleeping, saddened hearts, a link from heaven to earth.

York City.

CLIFF REMINISCENT SKETCES.

For Sam and Jess (the horses), are a.- Along in the early sixtles when the tocwed to eat their fill
mellow, fragrant appies as they
if upon the hill
sin of war was sounding in the land, the fall cleaning is really of more importance as it saves a great deal of inbringing to the people of the North the
convenience and discomfort to have every. bringing to the people of the North the clash of a mighty conflict, when news of carnage and distress came daily, otherwise thing clean and in place before cold weather comes. It is not wise, however er scenes of less importance, but preg-nant with great results, were being en-in September is usually followed by ward

Then the cider press whirrs gayin and the sweet brown juice flows out While vagrant butterflies and bees come flying round about And help themselves quite freely to the waymen seemed to have operated extre-chimneg the peared.

In those days robbery and plinage were no infrequent occurrence, endangering the peared. The figure on the public highways, a band of high waymen seemed to have operated extre-chimneg the peared. And nelp themselves quite freely to the nectar as it drips,

While many a sparkling glassful is drained by thirsty lips.

When the waymen seemed to have operated extensively along the National road between the Wabash River and Vandalia, and examined by a competent workman. This many stories of depredations committed many stories of depredations committed will frequently save positive suffering in were in circulation, some of which were fiction, yet often were founded on facts. paring to be done—carpenters' or masons' work, it should be finished before clean. were in circulation, some of which were fiction, yet often were founded on facts. On one occasion a stage coach was held up by three armed men between where Altamont now stands, then known as Moundville, and Howard's Point, near as Moundville, and Howard's Foint, hear what is now St. Elmo. The passengers, of which there were five men and two women, were obliged to dismount and were relieved of their valuables and money. The women were not closely searched, and one of them had a large amount of money on her person, which escaped the scrutiny of the robbers.

How perimance is the inward soul, and how we should nurse and cultivate that above all other beauties.

It was afterward learned a long handled feather duster, then with utay and the forest and were secreted for a time in cave Hollow, from which they after wards emerged to commit other depresents of the method of washing windows is much changed. The most approved idea detions.

tured. One of them confessed to particidays and nights, of their discovery of the Hollow and cave and their sojourn in its solitude, of the burial of the booty, but its hiding place he never revealed. Effingham Co., Ill.

us Edgley, yoah muss keep quiet. Written for the RURAL WORLD. VISITING THE SCHOOL.

How many parents have children in stops short, for there in the school who have never spent a half day

to this living piece of art, with awed ad- on other relations than those in which miration and adds in a reverent whisper. the teacher is seeking to have the child faithfully perform his tasks even though "You have that sweet chile let youn to comfort youh, an' to live foah."

Mrs. Edgerley looked in the direction easy and pleasant things we do are not was indeed a beautiful one, and brought intellectually. It is difficulties surmountian expression of warmth, all tenderness, into her before utterly hopeless eyes, into her before utterly hopeless eyes, hearts.

I will give you five kisses."

Josephine put up her rosy little mouth for the kisses and then gave mamma a bunch of grass.

"I once knew a little girl," said mamma, "who had smiles to sell."

"I have," said Josephine, and her face

These pleasant autumn afternoon, ar child to greater effort.

In many schools you will find a pleas

Pure the child—pure the ing young woman conscientiously trying face soon lighted up, too, and he did not throne above He saw it to instruct your boys and girls in more day, and with His smile 'he than reading, writing and arithmetic. On the throne above He saw it to instruct your boys and girls in more tear. On the throne above He saw it to instruct your boys and girls in late or any more, but the tears on his lasnes all and smiled, and with His smile 'he sun burst forth, and outside the win- down a tiny bird sang a song of gladness thoughtfulness for others will be the lessons a faithful teacher will inculcate, and the declining day.

There is great power in a smile, chillessons a faithful teacher will inculcate, and the more with it

she speak falsely to this embodiment of truth and innocence. "Eva, dear; Irene is sleeping now in her little bed; papa comprehension of her responsibility will

morrow, pet, Irene is going to God's lan't it just a little of a reflection that home, to wait for all of us to come to her, and where we will go when God sends for us as he has for her."

"Oh, mamma, can't we all go with books to see, your presence in the school-

sends for us as he has for her."

"Oh, mamma, can't we all go with lirene to-morrow?"

"Mamma and papa will go part of the way with her. We will take her to one of God's gardens here, where we will leave her, and the angels he has sont to meet her will carry the beautiful spirit to God's garden in heaven, where, she will be happy—oh, so happy, and where she will wait for us."

Talking thus to the child relieved her own great grief. She realized now more than she had before, that there are those left behind who need her attention, and again comes that low, sweet whisper: "I will not leave these comfortless. I will come unto thee."

When her husband arrived at night come unto thee."

When her husband arrived at night come unto thee."

When her husband arrived at night come unto thee. The school is the conter of the more you need at leave the school, and the teacher is made conscious of the fact and will give your child added attention. There seems to be a law of accumulation that money begins money, and interest begets linerately the school of the school of the school of the fact and will give your child added attention. There seems to be a law of accumulation that money begets money, and interest begets linerately the school of t han she hau below the companies. I will come unto thee."

When her husband arrived at night and she accompanied him to the death chamber and there witnessed the grief of this strong man, her force of character and tender sympathy asserted them.

MRS. MARY ANDERSON.

Caldwell Co., Mo.

made conscious your child added attention. There your child

Of all the pleasant seasons that bless darling.

We will now leave them, husband and

Put a handful of glazed coffee in a glass of water, wash off the coating, look at it; smell it! Is it fit to drink? Give LION COFFEE the same test. It leaves the water bright and clear, because it's just

Glass of Water.

In a

Written for the RURAL WORLD,

much more attention to putting the he in order for summer than for winter, yet portance as it saves a great deal of inin September is usually followed by warm nant with great results, were being en-acted. weather, and it is best to wait until files In those days robbery and pillage were and other summer pests have disap-

The first thing to be done in prepar ing for fall cleaning is to have all the ments which have been packed away for the summer; after airing and brushing them, they may be put in their accus-tomed places, ready for use when the first unexpected cold snap comes.

The alarm was given at Howard's Point and a posse of men started in pursuit of the robbers, but in the intervening time they had so far a start that they escaped capture. The country and woods were searched in every direction, and the hunt continued for several days, but without avail. It was after that they can be a second to cellar, and where it is necessary, carbets taken up and floors washed. After the work before they are washed. Some imagine this a waste of time; but it is an injury to the paints of the p

itself, and no soap at all; a small amount of powdered borax in the water taking the place of soap. If the windows are very dirty, kerosene or alcohol and a little whiting will remove the soil. Spirits of ammonia in warm suds will clean paints, marble slabs and mantels nicely When all is finished wring a clean cloth out of hot, clear water in which a little alum or salt has been dissolved, and wipe well each breadth of the carpet, rubbing straight down the nap; change the water frequently. This will make the carpet look fresh and new.

ELIZA R. PARKER. Trimble Co., Ky.

Mothers will find "Mrs. Winslow's Soothing Syr-up" the best remedy for Children Teething.

A YOUNG PEDDLER

"Want to buy some grass? Want to buy some leaves?" called Josephine as she walked toward mamma, holding her parasol over her head. As she came nearer she said: "Mamma, I'm a peddler;

ou must buy some grass."
"How much do you charge?" asked 'Five pennies," said Josephine "I have no pennies," said mamma; "but

"I have," said Josephine, and her face became beautiful as her lips and eyes smiled up to her mamma. That is worth twenty kisses, mamma, giving them to her little girl.

Josephine ran to the baby and talked to him, smiling all the time. His little

the declining day.

"Mamma, why does Irene sleep so long, and these will never be forgotten.

that why you feel so bad?" "Yes, pet,"

The earnest teacher will have more pleasure in her work if she knows that Try to remember that a pleasant look

THE RIGHT SORT OF OVEN.

These make a delicious relish to serve with meats. The grapes are picked from the stem and the pulp and the skins separated. Put in the pulp in a kettle and cook until the seeds begin to separate. The skins are put in another kettle with enough water to keep them from burning. Strain the pulp through a sieve to remove the seeds, then add to the skins with the sugar, vinegar and spice. For five pounds of fruit use three pounds of sugar, three-fourths pint of vinegar, one teaspoon each of cloves, allspice and cinCARE.

Just now a gentleman said to Pa, As I stood listening: "Ah! to be As free from worry, to live as far From care as he!" and he patted half what threatens my peace of

mind— Like income, rivals, affairs at school-Hung over him, he would hardly find The time to gabble like such a fool

My conduct average is so lowallowance

Don't that mean worry? There are That trust me, either! I've failed to

My only asset; I'd like to know

Myself the piece that they'll ask there In school to-morrow. To fear you

Will fail in public-ain't that a care? Besides these troubles, my stronges

Has fallen deeply in love with Jess and says my wooing of her must end, Or I'll get licked—and I will, I guess While I look forward to being lame With punches; nursing an empty

A loss of sweetheart; a public shame;

Written for the RURAL WORLD.

Early morning is the best time to in bibe the full beauty of the roses before the sun has a chance to drink the dew from its leaves. Of course, only our from its leaves. Of course, only our monthlies are in bloom at this season of the year. I have just been out visiting -one rose is a very double sweet

courtiers,

Has long since been under the sod.
The petals and leaves of the roses,
Will still waft their fragrance to God."
Barry Co., Mo. PEARL M.

"WHAT MAY THEY BE?"

Finnan haddy is simply haddock smoked and dried, an receives its name from Findon, in Scotland, where the fish is found and cured to perfection. A ragout is a stew highly flavored with

plain Irish stew, of mutton and Irish potatoes, that can never be too much stew-

Another form of this is a haricot of mutton, only in this several kinds of vegetables are used, and both meat and

regetables are cut into very small

A pot pie is a stew of any kind of meat, with dough balls, and braising is a form of stewing done in a covered pan in the oven, while in a fricassee the meat is fried brown either before or af-

Butler, Mo.; H. J. Miller, California, Mo.; Roler Bros., Sedalia, Mo.; L. A. Asborn, Sedalia, Mo.; Rocky Hill Poultry Farm, ter stewing. McKittrick, Mo.; Mrs. R. W. Tyne, Se A hopping jonney is a stew of meat and rice and may be cooked to perfec-tion in the south, while indeed there is nothing can equal a gypsy stew, made of a little bit of everything, flavored with Herther & Snyder, Huntsville, Mo.; Wm Johnmeyer, Boonville, Mo.; E. R. Blair Sedalia, Mo.; J. B. Housel, Sedalia, Mo. M. T. Bouldin, Sedalia, Mo.; W. H.

herbs and cooked for a day and a night,

as the saying goes .- Exchange. THE DELINEATOR .- The general run of fashion plates are the despair of those women whom nature has decreed for stoutness, or whom time has snowed with gray hair. gray hair. Many fashion cuts show an impossible slyph-like form of women everlastingly youthful. "The Delineator," whose long career of success shows that it meets the needs of women, contains in the September number a special article, carefully illustrated and devoted to the attire of stout and elderly women. This article, with its practical, useful advice about fabrics and quantities, will be ap-

Whitewashing the nests, inside and out, a good means of keeping them free

Sewing as a business is an exacting and ordinary way. The incubator used is reexhausting occupation. Long hours, fine work, poor light, unhealthy atmosphere—these are only some of the things which fret the nerves and hurt the general health. Often there is a diseased condition of the womanly organism which causes backache or headache and the working of the sewing machine. the working of the sewing machine under such conditions is akin to torture.

Thousands of women who work women who work have written grate-ful letters to Dr. R. V. Pierce, whose "Favorite Prescrip-tion" has cured their womanly ills and established their general their general health. "Favorite Prescription" esrrescription" es-tablishes regularity, dries un-healthy and offen-

neatthy and offen-sive drains, heals inflammation and ulceration, and cures female weak-ness. It makes weak women strong and sick n well.

women well.

Sick women are invited to consult Dr.
Pierce by letter free, and so avoid the indelicate questionings, offensive examinations and obnoxious local treatments deemed necessary by some physicians. All correspondence private. Address Dr. R. V. Pierce, Buffalo, N. Y.

I take great pleasure in recommending Dr. dress Dr. R. V. Pierce, Buffalo, N. Y.

"I take great pleasure in recommending Dr.
Pierce's Favorite Prescription for female weakness." writes Mrs. Susannah Permenter. of
Pauls Store, Shelby Co., Texas. I was troubled
with bearing-down pains in my beck and hips
tried his "Bworite. Prescription" advice,
tried his "Bworite. Prescription" advice,
to the store of the powders. There are many
I thank Dr. Pierce for my health. Life is a
burden to any one without health. I have told
a great many of my friends about the great
medicine I took."

Dr. Pierce's Common Sense Medical

medicine I took.

Dr. Pierce's Common Sense Medical
Adviser, in paper covers, is sent free on
receipt of 21 one-cent stamps to pay
expense of mailing only. Address Dr.
R. V. Pierce, Buffalo, N. Y.



GROVE HILL TROPHY.

Poultry

Lee's Summitt, Mo.; A. B. Ludwick,

dalla, Mo.; N. R. Robinson, Fayette, Mo.

Ritchey, Sedalia, Mo.; Hallwood Stock Farm, Carthage, Mo.; W. W. Graves,

Farm, Carthage, Mo.; W. W. Graves Butler, Mo.; W. E. Bowersock, Sedal'a Mo.; R. F. Coates, Sedalia, Mo.; R. A!

THE SURE HATCH EXHIBIT.

At the Missouri State Fair.

An exhibit at the State Fair that !

attracting universal attention, and around which the crowds linger longer than at any of the others, is the chicken

hatchery of the Sure Hatch Incubator Co., located in a tent next to the poultry

exhibit. Hundreds stand and watch the little chicks pick their way out of their shells and begin life without the care

of a natural mother, for which it would

seem they have no need, for they com into existence and pick up the thread of life with an energy and vigor very sel-dom found among chickens hatched in the

ponsible for these results, and the Sure

Hatch Incubator is the kind that never

chines shows that they are built on sci-

entific principles and a glance at the broods hatched demonstrates the fact that the words "Sure Hatch," used as a name, are most appropriate, as they sure do hatch the eggs. These incubators

are made at Clay Center, Neb., by the

Sure Hatch Incubator Co., who have branch nouse at Columbus, Ohio, and poultry raisers will do well to write them for new catalogue, showing all different styles of machines made. Their incu-

CURE FOR TURKEY DISEASE.

ease of the turkeys belonging to Maggle Baasch of Grundy County, Iowa; also

the rather severe remedy given by F. V. Chapman. For several years 'I have been raising turkeys, not extensively, but about forty or fifty each year, and I find this disease peculiar to them, es-pecially just at this season, when they

pecially just at this season, when they are more than half grown, says a corre-spondent in the "Prairie Farmer." Each year I have a few cases, but never lose one. This year have cured four cases and have one on hand now. My remedy is

-Sedalia (Mo.) Democrat.

len, Sedalia, Mo.

them—one rose is a very double sweetscented, cream-colored one; another is
sea-shell pink. It has the same perfume as crab apple blooms. If you pin
one of these on your dress front while
you go about your work—be the work
ever so worrysome, and you get a scent
of the rose a sense of gladness will come
over you that you can hardly analyze.
Another has a deep pink, and another a
very delicate pink. The Paul Neron
seems so fresh and full of life, and can
stand the sun's rays much better than
the rest.

"When the beauty who reigned 'mongst
courtiers,

"When the beauty who reigned 'mongst
courtiers,

"BROVE HILL TROPHY.

The Principal Prize at Tenth Annual
Show of the Mo. State Poultry Association.

"Show of the Mo. State Poultry Association.

The tenth annual show of the Mo. State
Poultry Association will take place in the
Town Hall. Chillicothe, Mo., Dec. 3 to 13,
1991. W. S. Russell and F. H. Sheliatopportunity ever offered in the West to
make a record and the successful one
will certainly have something to "blow
about."

handsomely engraved, the Barred Plymouth Rock cockerel at Boston, 1900, which bird Mr.
Bright sold for \$100, hence the name, "Century." The cup will be known as the
"Grove Hill. Trophy," after "Grove Hill."
Mr. Bright sold for \$100, hence the name, "Century." The cup will be known as the
"Grove Hill."
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"Grove Hill."
Mr. Bright sold for \$100, hence the name, "Century." The cup will be known as the
"Grove Hill."
Mr. Bright's poultry Association that we prove the world, and the successful one
will certainly association will take place in the
Town Hall. Chillicothe, Mo., Dec. 3 to 13,
1901. W. S. Russell and F. H. Sheliato the two best Barred Plymouth Rock
socks; two hens, two cockerels and two
porture.

"When the beauty who reigned 'mongst
will certainly association will take place in the
Town Hall. C handsomely engraved, the Barred Ply-

closely. The color of the droppings gen- Of course, there are many

cooked food for a few days. This dis-POULTRY AT THE MO. STATE-FAIR.

About 1,000 birds were on exhibition and of excellent quality for the time of the POULTRY AT THE MO. STATE FAIR. of excellent quality for the time of the year. The following were the exhibitors: fectly healthy. Drinking water should experience. Meadow Glen Poultry Yards, White

Reagan, Falls County, '1ex., Sept. 14.— fr. R. A. Marlin, a farmer of this vicinity, has something unique in the way of a curiosity. It is a 3-year-old turkey gobbler, who had "hatched out" and was playing the mother in regulation hen style to 14 little chickens. Mr. Mariin states that some weeks ago he missed this gobbler from his bunch of turkeys, and after a search found him sitting on an empty nest in the field. Observing that his gobblership exhibited a laudable desire to "hatch" something, he filled the nest with hens' eggs and left him to his own devices. In due course of time he "came off" with 16 little chickens, and as deeply interested in their welfare as any old hen could possibly be. He takes the greatest care of them throughout the day and carefully hovers them under his wings at night; in short, seems sincerely desirous of bringing them up in the way all little chickens should go. This is no all little chickens should go. This is no fake, for the gobbler and little chickens are here to show for themselves. The incident only tends to prove the great and unlimited possibilities of central Texas. BETTER POULTRY FOR THE FARM.

GOBBLER HATCHES CHICKENS.

While attending the fairs we could not help noticing the glaring ignorance on the part of many visitors in regard to what it takes to constitute a pure-bred fowl. There certainly is room for much improvement in this direction, J. Marshall in "Southern Cultivator." You may converse with any of them upon the different breeds of cattle, sheep or hogs, and they are perfectly familiar and can tell you their good qualities and their weak points. But when it co chickens as they call them, it is like going to a menagerie. They will walk up to a pen of Barred Rocks and be heard to exclaim: "Oh, my, what fine Brahmas these are." Or in looking over the Leghorns they will say these are Games. "Yes, I know these are Games. the Leghorns they will say these are Games. "Yes, I know these are Games by their big combs." And they will ap-proach the owner and say, "I want to get one of your premium roosters. How much do you ask for them?" When told they are worth \$3 to \$5 they are perfectly horrified and exclaim: "You must think I don't know anything to give such a I don't know unything price as that for a rooster. Why, I bought one of my neighbor last spring, to fifty cents, and as big as that one, for fifty cents, and they were full-blooded Plymouth Rocks, for they had yellow legs and bills and poportunity ever offered and the successful one make a record and the successful one will certainly have something to "blow about."

Mr. Wm. Ellery Bright of Waltham, Mass., the well known breeder of Barred Plymouth Rocks, and S. C. Brown Leghorns, has offered a silver cup, made to forder, undoubtedly the finest cup every offered at any poultry show in the West. offered at any poultry show in the West. Send for premium list to C. W. Nuss, Secretary, Tina, Mo.

The successful one world, and first of April that weighed up from the flock as they ran, and not fed a grain more than the balance of the flock, and the country, and what is more, paying every time. Send for premium list to C. W. Nuss, Secretary, Tina, Mo.

The successful one world, and first of April that weighed up from the flock as they ran, and not fed a grain more chan the balance of the flock, and the country, and what is more, paying every time. Send for premium list to C. W. Nuss, Secretary, Tina, Mo.

The successful one world, and the strength of the sample of the flock as they ran, and not fed a grain more chan the balance of the flock, and the seneral expression of passers-by was that those were last year's chickens. Nuss, Secretary, Tina, Mo.

The successful one world, and the strength of the sample of the flock as they ran, and not fed a grain more than the balance of the flock, and the seneral expression of passers-by was that those were last year's chickens. Nuss, Secretary, Tina, Mo. erally changes after the first dose. If this rule among farmers, but the rank not better the next day repeat the dose. Keep fresh water and cooked food before him, and even after he is well give only matter and see what we can do.

It is suggested that too much the would confer a favor by giving us their . There is no strength of the Water, Wis.; J. M. Doty & Son, Charleston, Ill.; J. W. Wale, Harrisonville, Mo.; day. It is well to give fowls at this materially increased by the feed and it may be possible to carry this to such an time a change of food occasionally unsuperscript of the chief to press through. extent as to make it impossible for the

its uniformity and durability.

OR every purpose where White Lead is required, that made by the "old Dutch process" of slow corrosion is the best, because of its superior density,

The brands named in margin are genuine 'old Dutch process" White Lead, the best it is possible to manufacture, and which have long been recognized as standards of paint value.

For any color or shade required, use NATIONAL LEAD COM-PANY'S Pure White Lead Tinting Colors. Pamphlet sent free

Course NATIONAL LEAD CO., Clark Avenue and Tenth Street, St. Louis, Mo.



DIRECT FROM THE FACTORY

to the consumer, saving middleman's profit and giving you the benefit. This cut shows iron bed, spring and mattress complete for 84.98. The bed is 48 inches high at the head and 38 inches high at the foot. It comes in white camelo only. The spring is of woven wire, guaranteed quality. The mattress is excelsior, cotton top, good tick, nicely tuftee. You could not buy this combination elsewhere for less than 86.00. We will ship it to you on receipt of 84.98, and if not satisfactory refund your money, or upon receipt of 84.98, and if not satisfactory refund your money, or upon receipt of 84.98, and if not satisfactory refund your money, or upon receipt of 84.98, and if not satisfactory refund your monest freight shaped in the satisfactory and another section of the satisfactory and typous are not good to the satisfactory and typous the satisfactory and address for complete catalogue showing every article your name and address for complete catalogue showing every article of creativer ded for the home and guaranteeing factory ABSOLUTELY FREE catalogue was a present and the satisfactory are satisfactory. The same satisfactory are satisfactory and the satisfactory are satisfactory and the satisfactory are satisfactory. The satisfactory are satisfactory and satisfactory are satisfactory and satisfactory are satisfactory and satisfactory are satisfactory.

FOR FREE SAMPLE
OF OUR ELECTRO OZONIZED MEDICINE
FOR THE SURE OURE
of Cancers, Tumors and Skin Diseases
write, J. C. PHIT, Z. D., 128 Gire St., St. Leais. bators are made: right, guaranteed for ten years, and the prices are so low that anyone can purchase without feel-ing the expense. Fair visitors who have not as yet seen this exhibit should not fall to look it up before returning home. YOU NEVER CAN TELL not as yet seen this exhibit should not fail to look it up before returning home. I have read the description of the dis-



Modern Heating Co., 313 Chestnut St., St. Louis, Mo.

Merchants Exchange.
Heating of Dwelling Houses, School ouses and Public Buildings with the eam or hot water system. Write for Prices.

Rocky Hill Poultry Farm has for sale Barred P Rocks, Silver White and Buff WORKS, St. Louis, for their Hiustrated Catalog of Feed Cookers, Hog Troughs

Tankette Rock Field Feel Cookers and Above birds at very low prices for quality, Satisfaction or money back. Stock ready to ship.

JOHN A. SHAW.



POULTRY.

BUFF ROCKS, S. L. Wyandottes and S. S. Ham-Good game, try me. J. E. HAYNES, Ames, Ill.

CHEAP, BUT GOOD. Young and old stock for sale now at the EGG FARM. Brown and White Leghorn, Barred and White P. Rock. Black Minorca and Bromse Turkeys. Iggs half price. Cinggian

B. P. R'S. Beautiful as any that grow, Useful as any that dluck or Bred crow. Young stock for sale.) by Write your wants.

Nepenthe Foulity Hanch. New Florence. Mo.

rtion or money back. Lt. Brahmas, ans, B. Fly. Bocks, S. L. Wyandottes you good. H. T. REED, CAMP POINT.

STYEARS IN THE LEAD. EQUALED. OAK FUELSAVERS. GUARANTEED. PLES REASONABLE LONGEST. MADE BYCHARTER OAK STOVE & RANGE CO.STLOUIS.

Kills Pain,

Internal or External. There are many kinds of pain, but there is only one Pain-Killer. Keep it by you. Beware of imitations. Buy only the genuine.—Perry Davis.' Sold Everywhere. 25c & 68c per bottle.

.....

FOR SALE

26 registered Shropshire bucks from one to three years old, mostly year-lings; 20 buck lambs; would sell 48 registered ewes; reduction made on five or more to one buyer. Low down.

H. C. TAYLOR, Keping, Saline Co., Mo.

WORMS KILL YOUR SHEEP EXCELSIOR WORM POWDER.

C. A. McCUE,

HAMPSHIPE SHEEP Oldest flock in the state, lambajat a bargain. Address JAMES TURNER, Mo. 244.

PRIZE WINNING CHESTER WHITES J. M. KETCHAM & SONS, LOVE LAKE, M.O. IMPROVED CHESTER WHITES

oth sexes for sale. 1st. prize ag ed e Show as well as four other prizes, call H. RAUSCHER & SON,

FOR SALEGreat Bargain 50 to 100 Angora Gos MUNSON, FARM,

BERKSHIRES.

LARGE ENGLISH BERKSHIRES—\$8.00 buys a pig of either sex; best of breeding. B. P. B. Chickens; White Turkeys. GEO. W. McINTOSH, Monett, Mo. POLAND-CHINAS.

VIVION & ALEXANDER,

POR SALE. A nice lot of fall pigs, sired by Mis-perfection, dams are Look Me Over and B. U. S., 13,715, B. and C. Perfection, dams are Look Me Over and B. U. S. breeding. Eggs for setting from best strains of B. P. c. belokens: also breed Rereford cattle. Proceedings.

J. E. SUMMERS, Huntsville, Randolph Co., Mo. **POLAND-CHINAS.**

WALNUT VALLEY FARM HERD

POLAND-CHINAS. Gilt-edge pedi-

DUROC-JERSEYS.

DUROC-JERSEYS and W. P. ROCKS. Choice young stock for sale. Address. R. S. THOMAS, R. P. D. No. 4, Carthage, Mo.

BIG 2 HERDS Duroc-Jersey and Chester White Hogs. Top individuals. No screen-ings crated. Write for let-live prices. J. E. HAYNES, Ames, Ill.

Buroc-Jersey and Berkshire Hogs! Extra Satisfaction guaranteed or you may return at my expense. S. C. WAGENER, Pana, Ill.

Thoroughbred Duroc-Jerseys
A few gilts and male shoats for sale at
easonable prices. Lewis W. Hassmann,
East Alton, Ill.

Pain-Killer The Pig Pen

DUROC-JERSEY HOGS.

At the Missouri State Fair.

McFarland Bros., Beaman, Mo., won the first premium on aged boars.
On boars under six months the first premium was won by Harry Sneed, Smithton, Mo., and the second by Mc-Farland Bros. On aged sows-Harry Sneed got the first

premium. Sows six months and under twelve-First premium to McFarland Bros., an

econd to Hary Sneed. Sows under six months—First premium Harry Sneed, and second to McFarland

First to Harry Sneed, and second Farland Bros.

For pigs, produce of one sow—First premium to Harry Sneed.
Four head, get of one sire—First premium to Harry Sneed.
Sweeptakes boar and shown by Harry Sneed.
F. M. Lall was

MAY EVOLVE A NEW HOG.

MAX EVOLVE A

MA

ble pork production. The staple and most intelligent system of agriculture is that which recognizes and combines all these and makes them work together in mutual

WHY I BREED BERKSHIRES.

The Berkshire is admitted to be the oldest breed of swine in the United States if these high prices is the fact that pork not in the world, and has been bred pure prices are equally high. A few years ago, for nearly 150 years. They have been used with a failure of the corn crop and high in improving most of the improved breeds of to-day that have a black color. They are a hardy, vigorous breed and will stand any climate where swine are grown. Being bred pure for so many years they naturally impress their quality on any breed on which they are crossed, says a correspondent in "Breeders' Gazette."

The Berkshire is a very prolific breed tled. We believe that the worst reports was all through. This was about six is noted.

o'clock in the evening, and the next morning at seven she was lying just as she was when we left her the night before, and I do not think she had turned over or gotten up during the whole night. Her whole twelve pigs were all alive and smart as could be in the morning. We are not claiming this as anything uncommon, but it is one of the peculiarities of the Berkshire, that they almost universally raise good-sized litters and raise them

raise good-sized litters and raise them well.

There is no breed of swine that will give a greater flow of milk. I watched a sow that is suckling twelve pigs this morning at the trough eating, and the milk flowed from her udder as she stood still at the feed. The Berkshire sow is very careful of her litter and will let herself that the best information for feeders can be given conventy price of the most valuable feeds, especially for growing animals.

With present prices of pork and present prices of corn, good feeders will get even higher prices than the market by feeding it to hogs.

The crop, as well as the price, will be carefully watched and duly noted, so careful of her litter and will let herself that the best information for feeders can be given convention price of feed with do so, seldom hurting a pig. They are quiet and can be handled at farrowing. The feeders throughout the country time without their getting excited in the will economize in feeding corn to an ex-

sows have been properly fed and handled.

Three pigs of our last litter farrowed were so strong that they never got off their feet till they reached the teat, and then were fighting for something to eat. This active and yet not wild in any manner.

Cattle feeders will tell you that for pigs to follow cattle they are far the best, for the reason that if a steer touches one of them he will move at once and not get trampled on. He is a pig that is always ready for the market at any age from The normal condition of animals is four months up, and if you wish to carry more or less affected by the changes of the temperature and results from the ame feeding are varied.

The normal condition of animals is four months up, and if you wish to carry them on to the age of one year they will be temperature and results from the ame feeding are varied.

CHOICE POLAND-CHINA SPRING PIGS

JOHN L. CLARK, Bolivar Mo.

ANGORA GOATS FOR SALE!

I have about 800 recorded, high class and medium class does and a few old fash ioned goats that I will sell at a reasonable price. I am in a position to fill any orders satisfactorily from any standpoint. Address W. T. McINTIRE, Agent, Kansas City Stock Yards, Kansas City, Mo.

FINE BERKSHIRES best families at farmers' prices. Write for what you or, what is better, come and inspect the stock.

W. H. KER, Prairie du Rocher, Ills.







Simply O. K. 24290, pictured above, was the first prize winner in his class at the Missouri State Fair. He is acknowledged to be the best boar ever sired by the great Perfect I Know. He is not yet two years old, and stands at the head of the O. K. herd of Poland-China hogs owned by John L. Clark, Bolivar, Polk county, Mo. Mr. Clark's advertisement will be found in

will never guess on the weight of a bunch of well-finished Berkshires, as they invariably outweigh their expectations. There is also a uniformity in appearance of a well bred herd of Berkshires that is very pleasing.

The He is the greatest economizer of food and makes the cheapest meat obtainable by the customer. He is, therefore, a friend of the consumer as well as the

feel assured that others can be found to take their places. In other words, we propose to supply our own demand for pork, even if we are compelled to evolve a new hog to do this.

The farmers of Washington who are making money are those who are combining stock-raising with their other operations. Dairying and haying, grain growing and cattle and sheep and even our orchards lend themselves to profita-

The damage to the corn crop the present season is the greatest that has taken place for a good many years. This has forced an advance in the price of corn that is causing a good many questions to be asked regarding substitutes, as well as the profit in feeding corn at the pres-

and the sows are the best of mothers. of injury were in the August 10 govern-Only the past week three or our sows farrowed as follows: One had twelve pigs, one thirteen and another twelve. The last sow did not move from the time to the time in the West, and a deterioration in Southern Illinois, Indiana and she commenced to farrow till after she Ohio; but, on the whole, an improvement

recognized as one of the most valuable

down in the bed as carefuly as she can be given, comparing price of feed with

tent that will make a large aggregate The pigs come strong and active if the saving. While the damage is very large, shows vitality and energy, and a pig of crop and balance of old crop on hand, it this kind will not have to be taken from will be seen that there will not be a corr the sow and put back every hour for its famine. There will be the largest amount dinner, but will look after that matter itself. The Berkshire is not excelled by any shredded that has ever been garnered by breed in its grazing qualities. They are learned from this compulsory economy will be a valuable one to the farmers of

> PIGGIE'S TROUBLES.—The Zenner
> Disinfectant Company, Detroit, Mich., has
> issued a booklet entitled, "Piggie's
> Troubles," and their treatment from a
> scientific standpoint, that will be found
> very useful by hog raisers who want to PIGGIE'S TROUBLES.-The Zenner very useful by hog raisers who want to overcome the many forms of disease among swine. The causes and symptoms methods of treatment given. Of course zenoleum, which is made by the Zenner Disinfectant Company, is set forth prominently as a curative agent, but the claims for its efficiency are well substantiated. Such authorities as Dr. A. L. Peters. State Veterinarian of Nebraska; methods of treatment given. Of course

Going further, he found that the pig gives a larger ratio of dressed carcass gives a larger ratio of thressed carcassas than does the steer in proportion to live weight, giving 82 per cent of dressed car-cass to 65 per cent in the steer, or 50 per cent with the hide and tallow free.

Still pressing the claims of the hog over the steer to their legitimate issue, he finds that 100 pounds of food from the data given produced 7.39 pounds of clear water and bone free meat in the pig, and 1.67 pounds of beef for consumption, or the pig produces 4.42 per cent times more food material than the steer from 100 pounds of food.

The producer sells the pig fat for market at as high a price as the best of the much larger growth and gain per 100 pounds of food, and the early ma-turity of the pig not being required to pass through one or two costly winters of little growth, all of which shows the greater advantage of the hog vs.

teer.
The hog has been improved in the last twenty years to such an extent that he is able to mature earlier, to assimilate THE PAN-AMERICAN SHEEP SHOW. greater, and produce a larger amount of gain and growth from the same quan-tity of food.

months of age, and the general average of weights were not more than are made now at 8 to 10 months, showing the great improvement in the present meth-ods, and the great loss of feed by the

periment Station reports on its experi-ments in soaking corn for hogs. Nearly all the pork which is produced in the United States is derived from corn-fed hogs, yet very few experiments have ever been performed to determine the best and most economical way of feeding

The following experiment was planned to determine whether woaking corn in water affects in any way its food value. Poland-China-Duroc-Jersey and Poland-China-Berkshire cross-bred pigs were used in the experiment. They were di-vided into two lots similar in respect to size, breed and sex. From a carload of western corn sufficient was procured for

very useful by hog raisers who want to overcome the many forms of disease among swine. The causes and symptoms of these diseases are stated briefly and methods of treatment given. Of course of dwith all that it would eat up clean.

tiated. Such authorities as Dr. A. L. 410 pounds of meal for 100 pounds gain, therefore the soaked corn produced the Dr. A. W. Bitting, State Veterinarian of Indiana, and numerous representatives of about the extra expense of grinding the content of the soaked corn produced the more economical gain, to say nothing about the extra expense of grinding the

SHEEP AT THE MO. STATE FAIR.

An excellent lot of sheep was shown at

COTSWOLDS.—Aged rams, first pre-mium to Geo. Harding & Son, Waukesha, Wis.; second to Lewis Bros., Camp Point, III.

Yearling ram, first to Geo. Harding & ion; second to Lewis Bros. Lambs—Lewis Bros., first; Geo. Hard-

ng & Son, second.
Two-year-old ewes—Geo. Harding & Son, first; Lewis Bros., second.
Yearling ewes—Geo. Harding & Son, rst: Lewis Bros., second.

Ewe Lambe—Geo. Harding & Son, first; ewis Bros., second. Flock, home-bred—Lewis Bros., first. Four lambs-Lewis Bros., first. Sweepstakes, ram-Geo. Harding & Son. weenstakes ewe-Geo. Harding & Son.

LEICESTERS AND LINCOLNS-ram, H. Hanson, Oshkosh, Wis., Lewis Bros., second. Yearling ram-H. Hanson, first; Lewis

Lamb—H. Hanson, first and second. Aged ewe—H. Hanson, first; Lewis Ewe lamb-H. Hanson, first; Lewis

Flock—H. Hanson, first. Pen of four lambs—H. Hanson, Sweepstake ram—H. Hanson. Sweepstake ewe-H. Hanson.

SOUTHDOWNS—Geo. McKerrow, Sus-ex, Wis., was awarded all the prizes. OXFORD DOWNS—Geo. McKerrow was warded all the prizes excepting second on ram lamb, which went to C. E. Hereman. Bristow. Mo.

AMERICAN MERINOS.-Dorsey Bros. Perry, Ill., were awarded all the prizes.
FRENCH MERINOS.—Geo. Harding &
Son were awarded all the prizes.

Editor RURAL WORLD: The sheep gain and growth from the same quantity of food.

The improved pig shows the great feeding capabilities and earlier maturing qualities that have been bred into them. No time is lost. They can be marketed as quickly as a crop of grain. The pig should be kept growing continually. It requires a certain amount of food for maintenance. If there is no growth and no gain this maintenance food is actual loss.

About 25 to 30 years ago good hogs were marketed usually at 18 to 24 months of age, and the general average of weights were not more than are made in the Exposition commencing on September 23 will immediately follow the exhibition of cattle. Superintendent converse has arranged a sheep classification that is broad enough to cover overy variety that is bred in this countring of the two countries are taking in this very important show. The classification covers 17 distinct sections. It is more complete in Merinos than any other, because thin its recognised as being the only distinctively American breed as to origin. Especial attention is therefore given to them, and because of this the class has

States, are sending exhibits to this show. About 100 wild sheep from the pasture lands of the great Canadian Northwest will form one feature that will be of more than ordinary interest. Representative where the property of the great Canadian Northwest will be amenable to the public. Such that ordinary interest. Representative watchmen will be amenable to the rules of the great Canadian Northwest watchmen will be amenable to the rules their barns twice a day on the soiling gregated. The following is a list exhibitors in the different classes:

COTSWOLD: A. J. Watson, Castle de cote, Ont.; W. H. Newton, Pontiac, Mich.; Wilson Brothers, Muncle, Ind.; Geo. Harding & Son, Waukesha, Wis. LEICESTER—W. H. Newton, Pontiac,

Mich.; A. & W. Whitelaw, Guelph, Ont.; J. M. Gardhouse, Highfield, Ont.; A. W. Smith, Maple Lodge, Ont.; George B. Armstrong, Teeswater, Ont.; John Kelly, Shakespeare, Ont. LINCOLN.—A. Bordwell & Son, Fargo,

N. Y.; John T. Gibson, Denfield, Ont.; J. H. Patrick, Ilderton, Ont.; Eugene

Abington, Ont.; Leifer Brothers, Paris, Ont.; George Allen, Allerton, Ill.; William Emple, Ninaville, N. Y.; W. V. iam Emple, Ninaville, N. Y.; W. V. Hamilton, Caledonia, N. Y.; Robert Mc-Ewen, Byron, Ont.

Ill.; D. G. & J. G. Haumer, McBernon, Ont.; Richard Gibson, Delaware, Ont.; John Campbell, Woodville, Ont.; George B. Phin, Mespeler, Ont.; L. D. Rumsey, Jr., Lewsiton, N. Y.; Brown Brothers, Scottsville, N. Y.: Howard Davison, Hill brook, N. Y.; H. Calvin Williams (Folly

West Brighton, N. Y.; H. E. Sanford, Middlebury, Vt.; Peter Martin, Rush, N. Y.; Ira J. Hamblin, Middlebury, Vt.; J. M. Flanagan, Niles, O.; H. D. Jackson, Bridport, Vt.; R. D. Williams, Xenia, O. MERINO, "B"—J. M. Flanagan, Niles, Ohio; R. D. Williams, Xenia, O.; E. N. Bissell, East Shoreham, Vt.; David K. Bissell, East Shoreham, Vt.; David K. Bissell, East Shoreham, Vt.; David K Bell, West Brighton, N. Y.; C. A. Chap Bell, West Brighton, N. Y.; C. A. Chap-man, Ferrisburgh, Vt.; C. H. Bell, Ash-ley, O.; H. B. Wheeler & Son, Yatesville, N. Y.; H. E. Moore, Orchard Lake, Mich.; P. H. Norton, eVrgennus, Vt.; Peter Mar-tin, Rush, N. Y.; Ira L. Hamblin, Midllebury, Vt. DELAINE, DICKINSON-R. D. WII-

liams, Xenia, O.; C. H. Bell, Ashley, O.; A. C. McDowell, Canton, O.; C. S. Chap-man, Marysville, O.; James McClelland & Son, Canonsburg, Pa.; J. N. Flanagan, RAMBOUILLET-A. A. Wood & Son Sa

line, Mich.; Shaw & Bader, Marits, Ohio; Max Chapman, Marysville, O.; H. E. Moore, Orchard Lake, Mich.; Lincoln Brothers, Millford Center, O.: Geo. Harding, Waukesha, Wis. DORSET HORN-R. Stuyvesant, Alla

nuch, N. J.; John A. McGilliray, Ux-oridge, Ont.; R. H. Harding, Thorndale, Ont.; M. Melville Eupey, Napanee, Ont. CHEVIOT-William Curry & Son, Hart rick, N. Y.
TUNIS-Clark Allis, Medina, N. Y.
HIGHLAND BLACK FACED-J. C.

uncan, Lewiston, N. Y. YEARLING RAMS—H. Calvin Wiliams, Abington, Pa.; John Campbell, Woodville, Ont.; Geo. Phin, Hespeler,

o., Hastings, Tex.; The National Angora Goat and Cattle Co., Wellsboro, Pa.; W. T. McIntire, Kansas City, Mo.; H. Cal-vin Williams, Abington, Pa., SHEARING MACHINERY.—In connec-

tion with the sheep show an exhibit of sheep shearing machinery will be made by two of the largest firms in the coun-try. To properly represent the workings of these machines, animals will be se-lected and brought from the Buffalo Stock Yards to the Exposition grounds, and shorn for Exposition purposes. This

as to all American countries to send ex-hibits of the different grades of wool to hibits of the different grades of wool to this show. Classifications for these exhibits have been made as follows: Clothing, combing and carpet wools, with their necessary sub-divisions. Entries for this exhibit may be made at any time up to September 21. At the time of making entry information must be given for each individual fleece, breed, sex, age of animal, weight of fleece, days' growth of fleece, length of fleece. The following rules and the state of the state o entries to the wool exhibit, blanks for which will be furnished upon application:
Packages containing oxhibits should be plainly marked "Director General, Pan-American Exposition, Pavilion B, Buffalo, N. Y." Labels will be furnished on application upon which the following information must be written and address. application upon which the following information must be written: 1. Name
and address of exhibitor. 2. The total
number of packages sent by the exhibitor. Freight and terminal charges
triangle as the best for Southern pastures and agriculture. They are cerhibitor, Freight and terminal charges
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triangle as the best for Southern pastures and agriculture. They are cerhibitor, Freight and terminal charges must be prepaid. All entries must be filed with the Superintendent of Agriculture, on or before the 15th day of September, 1901, and must be made on the official entry blanks which will be fur-

nished upon application. All fleeces for exhibition at the Pan-American Exposition must be installed prior to the 23d day of September, 1901. All exhibits together with their installation, must be removed prior to October 7, 1901, from the Exposition grounds, and if not they may be removed at the risk and expense of the exhibitor. If this is done and the Exposition Company is not reimbursed for expense prior to June 30, 1902, all such exhibits and installations will be publicly sold for account of such

charges.

After an award has been made, business cards and descriptive circulars re-

and regulations governing employes at the Exposition. 'Arrangements will be made with trans-

Arrangements will be made with trans-ortation lines, so far as possible, for re-uction in freight rates for the carriage of shibits to and from the Exposition. exhibits to and from the Exposition. The right is reserved to construe, add amend the foregoing rules and further information address

F. A. CONVERSE, Superintendent, Buffalo, N. Y. In starting a flock of sheep, great care should be taken in the selection. Start

good flock and keep it.

Sheep make good cleaners and gather SHROPSHIRE—George Allen, Allerton, up much that would otherwise be wasted.

III.; D. G. & J. G. Haumer, McBernon, ont.; Richard Gibson, Delaware, Ont.; put as much wool as possible on the back put as much w of the sheep.

It is indispensable that the young lambs should be kept free of impediments to growth, he worst of these just now is the tick, which gathering in numbers suff-

agricultural experiment stations in different parts of the country testify to the value of zenoleum as a disinfectant and preventive and cure of hog diseases. It is send for a copy of "Piggie's Troubles," which will be sent gratuitously.

So far as can be done arrange the hog so far as can be done arrange the in them.

All stock will thrive better and grow a heavy load of fat.

brook, N. Y.; H. Calvin Williams (Folly Farm), Ablangton, Pa.

OXFORD DOWN—J. H. Jull & Son, Mt. Vernon, Ont.; R. J. Stone, Stonington, Ill., George McKerrow & Son, Sussex, Wis., A. Bordwell & Son, Fargo, N. Y.; W. H. Newton, Pontiac, Mich.

HAMPSHIRE—John Kelly, Shakespeare, Ont.; F. Milton, Marshall, Mich.

MERINO, "A"—H. B. Wheeler & 2cn. Nates will thrive better and grow faster if they are not compelled to carry a heavy load of fat.

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HAMPSHIRE—John Kelly, Shakespeare, Ont.; F. Milton, Marshall, Mich.

MERINO, "A"—H. B. Wheeler & 2cn. Nates will thrive better and grow faster if they are not compelled to carry a heavy load of fat.

If there is any coarseness on either side it be on the side of the sow rather than the boar.

A Go-to-Church Lantern



is just the right one for this purpose, also for any which calls for a light weight, convenient lantern, giving a fine oright light. The farmer's wife right light. The farmer's wife ill especially appreciate it. We and one by express, prepaid, for 1.00, and we give your money ack if it doesn't suit you. That's

R. E. Dietz Company, Laight Street, New York Established 1840.

fair enough. Circulars free

SHEEP IN THE SOUTH

Water-soaked lands are not suitable for sheep, nor is the growth from such generally desired by them, though such land may be depastured by them in a ANGORA GOATS-W. G. Hughes and dry part of summer and may come in good use in time of drouth. High, dry and rocky parts are excellent for a wet

The ideal land for sheep is a productive luxuriantly, clay land having preference Lands that are drained sufficiently and in good fix for cotton and corn, can be good pastures for sheep, even if rather level and flat, and especially can be so utilized if there be adjacent high ridges or hills for use in wet periods.

In the lower South it is well not to shorn for Exposition purposes. This part of the exhibit may be seen at any time during the day from 8 o'clock in the morning until 6 in the evening. All that is newest and best along this line may be confidently anticipated.

WOOL—A special wool exhibit will be held in connection with the sheep show that will be representative of the wool productions of a great many American countries. Invitations have been sent to the different State Commissions as well as to all American countries to send ex-

tures and agriculture. They are cer-tainly as well so for sheep. It is my conviction, from close obser-vation though not personal experience,

that these grasses intelligently managed in the South for sheep, used in grazing, in the silo or as dry feed, will prove as successful and profitable as do others on the heavier grass lands of the Middle

I do not propose to write a treatise on grass here, only to suggest sheep man-agement with them. It is altogether practicable to produce

sheep and winter them exclusively on the annual grasses. To do this a succe must be provided. For winter and early spring pasture rye may be sown in the fall, especially for ewes at weaning time. Part of it may be cut quite green for sheep feeding at nights along in late spring and early summer. Along with

sepecial attention is therefore given to now at 8 to 10 months, showing the great improvement in the present methods, and the great loss of feed by the old pian of long maturing.

The hog is the best marketer of grain and grass that the farmer has. He brings it quicker and at greater profit for the food consumed than any other animal, while his meat is the cheapest that can be produced for the consumer, when the economy in the cured product is taken into consideration.—Prairie Farmer.

SOAKING CORN FOR SWINE.

In Bulletin 59 the West Virginia Ex-

This latter plan will pay far beyond

ing with aid of wild grass and herbage in the near timber lands, and native to constitute an abundance of summer sheep feed. By plowing under a portion of the crop, especially pea and bean vines, the land would be in improved state for a crop of corn or cotton and manure enough from the sheep to richly fertilize the

Feed largely nitrogenous foods, particularly to the breeding ewes, or these foods that produce the best growth of bone and muscle.

From the standpoint or my object leads on a fifty ewes, with their fifty lambs, on an 160 acre farm, the situation of the summer feeding above described can readily be comprehended.

Eight times that many ewes-with their lambs—on eight times that many acres can be fully grasped in the mind of those at least who are fortunate enough to have the land.

At risk of repeating, I will say that it has been practically demonstrated by lambs Southerners, hundreds of times, that its to about fifty ewes with lambs, on about 160 acre farms have been the most profitable part of their business, even when

ranges at \$9 to \$11.50; prairie, this side, \$12@12.50 for No. 1 and \$9@10 for No. 2;

alfalfa 12@18.50.

COTTON—Local spot quotations—Ordinary, 6 3-16c; good ordinary, 6 11-16c; low middling, 7 5-16c; middling, 8 1-16c; good middling, 8 9-16c; middling fair, 8 15-16c. WOOL—A firm but quiet feeling pre-vails. Very little trading.

Missouri and Iilinois—Medium combing,

medium clothing, 16%@16%c; braid and low, 161/@16c; burry and clear mixed, 14½@15½c; slight burry, 13c; hard burry, 11c; light fine, 13½@14½c; heavy fine, 10½@11½c. Arkansas and Southern —Medium (fleeces), 16½c; medium (loose).

higher in price, offerings being light, be-sides all other leading qualities ruling quiet. Creamery—Extra, 2:c; first, 18@ 19c; seconds, 16@17c. Country—Choice, 1:c; poor to fair, %010c; grease, 4c. Dairy— Extra, 16c; firsts, 12@14c. Ladle packed— Extra, 15c; firsts, 13½c. CHEESE—Jobbing: Twins at 10c; sin-

gies, 10%c; daisies, 11%c; Y. A., 11%c; long horns, 114c; N. Y. large, 11c; N. Y. small, 111/2c; limburger at 111/2c; Swiss, 16c; brick,

LIVE POULTRY-Young chickens lower and weak—very dull. Ducks (that is, choice feathered white) and geese in fair demand, but plucked or thin not wanted. Good dressing young turkeys and choice old turkeys steady but thin and small young not wanted. Chickens—Hens, 7½c; roosters, 3½c; spring chickens, average receipts, 9c. Turkeys—Old, 7½c; young, 5 pounds and over, 7c; small not wanted. Ducks-Choice white, 7c; dark 6c. Geese

c. Live pigeons, per dozen, &c. DRESSED ICED POULTRY—Scalded and undrawn, with heads and legs on: Chickens-Hens, 71/2c; spring chickens, 91/2c; roosters, 4c. Turkeys, 81/2c. Ducks,

BROOM CORN-Market nominally very firm; offerings so light accurate prices cannot be named. Latest sales on basis of \$60 per ton for ordinary to \$100 for choice, but would probably bring more

SEEDS-Timothy steady at from \$4.75 for poor to \$5 for fair and \$5.20 for clean bright. Clover quiet but steady at from \$5 for poor up to \$9 for the best of the current receipts; redtop-fancy ex-port at \$10, fancy otherwise at \$6 to \$9, seed in chaff at \$2 to \$5.50. Millet at \$1@ 1.25. Sales-16 sacks clover at \$8.90 on E. track, small lots redtop at \$6.85 and \$3.95; also 2 cars timothy delivered on contract.
DRIED FRUIT—Apples steady in price

offerings fair in amount; demand limited. Apples—Evaporated rings at 6½@6%c for fair to choice, 7c for large white and 6c fair to choice, it for large white and ec for inferior; evaporated quarters at 6c to 6½c; bleached chops at 1½@1½c, do pelings at 1½@1½c; sun-dried quarters— fancy at 4¾c, choice at 4½c, fair at 4@ 4½c, dark and inferior at 3@3½c. Peach--Sun-dried, 1%c to 2%c.

WHITE BEANS-Active and firm

at 50c@\$1.50 for fancy and \$1 for 2-3 crates; home grown plentiful; consigned slow and dead. I have been fighting and anathematising crab grass ever since I came to the State, but now I am inclined to ket; home grown gems 25cc per bu box.

ROTATORS Fasier: northern and east
Portators Fasier: northern and east
**The column of the column of

ern \$1@1.10 per bu skd.

ONIONS—Choice near by yellow 70@80c;
red \$6@90c; white globe \$1@1.25 per bu.

SWEET POTATOES—New home grown
Bermuda \$1@1.25 per bu loose; Virginia

Bermuda \$1@1.25 per bu loose; Virginia

Sermuda \$1.25 per cwt. and helfers
as low as \$1.50 per cwt. The panic is a

as low as \$1.50 per cwt. The panic is a thing of the past, however, and prices, especially for calves and young cattle, of an article by Prof. Frank W. Blackmar in the September "Review of Reviews." Prof. Blackmar describes the state's agricultural and other resources and shows that such an episode as the recent unprecedented heated term cannot permanently affect the prosperity of the commonwealth.

as low as \$1.50 per cwt. The panic is a thing of the past, however, and prices, especially for calves and young cattle, the commonwealth.

The corn fodder is now nearly all in the stock which is left in the country safely through the other resources and many people have gotten over the blues.

The corn fodder is now nearly all in the stock which is left in the country safely through the other control of the state of the proving is of the southeast, and everything is drying up.

Long live the RURAL WORLD.

Harrison Co., Tex. B. C. WILSON.

ST. CLAIR CO., S. W. MO.—We had two light showers this week. The ground is in fine condition for plowing. There have been very little plowing done is in fine condition for plowing. There have been very little plowing done is in fine condition for plowing. There have been very little plowing done is in fine condition for plowing. A. CALHOUN.

OKLAHOMA NOTES.

HAY—Prices E. trk as follows: Timothy, \$13.50 for choice, \$12@13 for No. 1, \$10@11 for No. 2; clover \$10@11 for No. 2; cl t. Cotton will be the staple product et in the field. Our oats were good, this portion of Oklahoma this year. yielding 40 bushels per acre.

s bringing something over 7 cents per I rent out all my land and am having and now in the market; in the seed 2½ 140 acres of wheat sown. The land is all wheat crop of the United Kingdom at of this portion of Okiahoma this year. It is bringing something over 7 cents per

cents per pound.

There will be quite an acreage of wheat sown for pasture here this fall, should we-be fortunate enough to have sufficient rain to prepare the soil properly for seeding. In cultivated fields the soil will pulverise nicely, but stubble breaks up rough and cloddy. We are going to sow on oat stubble.

we sowed turnips again this week, but dreds of farmers refuse to sell even at burry, 13c; hard hard hard hard hard hard hard Inferior less.

BUTTER—Creamery firm and tending sight, besides all other leading qualities ruling superior we furnish a daily supply of water to four calves, four head of horse stock, 25 head of hogs and about 150 chickens, besides all other leading qualities ruling superior calves, four head of hogs and about 150 chickens, besides all other leading qualities ruling sides plenty for household purposes, without being able to out diminishing the water supply to any buy a pound of brush.

Creamery—Extra, 2c; first, 180 jog; seconds, 160/10. Country—Choice, 10c; very noticeable extent.

There is a shortage of fully 5 this year and prices are bouton of Oklahoma but most all persons depend on wells for their general water supply.

"A. GREENER."

There is a shortage of fully 5 this year and prices are boutout higher before spring.

ADAIR CO. (MO.) NOTE Cleveland Co., Okla.

MISSOURI WEATHER AND CROPS.

somewhat checked by the low tempera-ture. Much feeding of stock is still neces-sary, however, especially in the eastern counties. Stock water continues very scarce in many places. COW PEAS are being harvested in some

of the southeastern counties and are a good crop.

specifically unbroken in this vicinity at this time, Sept. 7.

I have been told by a reliable man that on the farm of a Mr. Witt, who lives a feetings; home grown at 40.6941.75 per bl; river stock 41.2592.25 per bl.

PEARS—Firm for good stock, with fair offerings; home grown common varieties 56940 per ½ bu basket and at 41.5692.56 per bbl; Reifers \$1.5092 per bbl; Bartletts 3393.50 per bbl.

PLUMS—Scarce; small red home grown at 326 for Ohlo Delaware in \$1 bb baskets for damsons.

GRAPES—Firm at 23c for Ohlo Delaware in \$1 bb baskets (Chlo Niagara \$1 bb chlo Niagara \$1 bb baskets (Chlo Niagara \$1 bb baskets (Ch

for wheat, as the ground has been too

dry, except a few days after the rain having Your own FARM TOOLS.

which fell Aug. 4.
Sept. 11—Mr. Editor, the drouth is Editor RURAL WORLD: I like to lene

BROOM CORN BOOMING.

Arcola, Ill., Sept. 22.—Broom corn is on he boom. Brush that last week sold the boom. Brush that last week sold freely at \$95 and \$100 brings \$130, and hun-We sowed turnips again this week, but dreds of farmers refuse to sell even at

There is a shortage of fully 50 per cent

ADAIR CO. (MO.) NOTES.

Editor RURAL WORLD: Since my last we have had two fine rains, and it is raining again to-day. We feel as though The United States Department of Agri- the drouth of 1901 were broken. On the this subject. An extended account of the

northern and a few of the extreme southnorthern and a few of the extreme southesatern counties, but over much the
greater portion of the state the rainfall
arge acreage of rye sown here this fail
in the hope that it will make some late
FROSTS occurred on the 17th, 18th and
fail pasture and give early feed next
what divided. If done at once after har-

Editor RURAL WORLD: I was born in 1849, one year before the RURAL WORLD was established, and moved from Alabama to Texas in 1860. Have been in Texas ever since, excepting a part of two years, which was spent in Florida. I was raised on a farm and have farmed all of my life, with the exception of three years of professional life. I am not much of a farmer, but I know.

If egg-denoit by delaying the delay to the floridation of the plant will be a matter of doubt.

If egg-denoit by delaying the delay to the plant will be a matter of doubt.

per 8 lb basket; Ohlo Niagara 8 lb baskets 169 lb askets 169 life; ponies 19c; Ives 8 lb baskets 1169 life; ponies 19c; Ives 19c; ponies 19c; Ives 8 lb baskets 1169 life; ponies 19c; Ives 8 lb baskets 1169 life; ponies 19c; Ives 19c; ponies 19c; Ives 29c; ponies 19c; ponies 19c; Ives 29c; ponies 19c; ponies 19c; Ives 29c; ponies 19c; ponies 19c; ponies 19c; ponies 19c; ponies 19c; ponies 19c; ponies 19 a pasture of 20 acres, with a running branch in it for hogs and calves. Fifty yards from this branch the grass will burn. We had two or three light rains the first of August that kept vegetation from dying. Yesterday, Sept. 1, high winds blew

WHEAT—Cash Market—Sales of No. 2
red at 71/26/71/26 this and 72c E. side; No. 3
red quotable at 70/27/16 and No. 4 at 69
689%c skd in elevator; 70%c for No. 2 red and lc to 2c less for No. 2 and 681/26/26/26 for No. 3
routside rates for Kahasa.

CORN—Cash Market—Soles (no. 2 white at 896 for No. 2 and 681/26/26/26 for No. 2 market.

CORN—Cash Market—No. 2 sold at 37%c
6838%c for No. 3
rived or better selling at lc under No. 3
red to be test selling at lc under No. 5
white or better at Dec. price.

OATS—Cash Market—No. 2 sold at 37%c
6838%c for fancy E. side; No. 2 white at 89%c
6838%c for fancy E. side; No. 2 white at 89%c
6838%c for fancy E. side; No. 2 white at 89%c
6838%c for fancy E. side; No. 4 white at 89%c
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6838%c for fancy E. side; No. 6 whi

AMERICAN WHEAT NEEDED.

London, August 19.-The "Mark Lane

56,000,000 bushels, that of France at 300,-000,000 bushels, and the crops of Belgium and Holland at 40,000,000 bushels, a total of 396,000,000 bushels for the great wheat importing area of northwestern Europe, which needs 664,000,000 bushels. America, with home wants not exceeding 400,000,000 single-handed. The Russian, Rouman

THE HESSIAN FLY.

During the season past the Hessian fly in parts of the Kansas wheat belt, and Culture, climate and crop bulletin of the weak ending September 23, 1901, is as follows:

This rain came so gently the week ending September 23, 1901, is as follows: the week ending september 25, 1901, is an officious:

THE WEATHER during the past week has been remarkably cool, the mean temperature ranging from 8 to 15 degrees below the normal. Moderately heavy rains have fallen in some of the central and coming up finely. Pastures are looking are still the practices recommended by the sum of the central and coming up finely. Pastures are looking are still the practices recommended by the sum of the central and coming up finely.

fall pasture and give early feed next sweet potatoes, sorghum, cow peas and other tender vegetation were killed. In a number of the northern and eastern counties some late corn was also damaged, Except in a few of the northern counties, however, very nearly all of the corn is now in shock.

FALL SEEDING is progressing rapidly, with the soil in good condition, except in some of the eastern counties, when of the eastern counties, when of the eastern counties, when the ground is so dry that plowing cannot be finished. Reports indicate that a large carcage of both wheat and rye will be able to get it through the winter in good shape. While the drouth may be a blessing in disguise, as others have said, it has been an expensive one, costing several hundreds of doilars in our own case. We shall profit by the experience, however, and try and make it up next year. There will be more corn here than we had thought, although sown. In the northern and western sections.

in summer or fall, but cannot withstand the frost; and wheat appearing after the first white frost of the season will be free from attack. This fact is confirmed by the present year's experience of correshown. There is also a double page of spondents of the Kansas Station. Early photographs of "The Handsomest Laces

"Ainslee's" for September opens with a

trenchant article on "Chicago, the Most National City." The author, Richar⁴ Linthicum, strikes deeply at the roots of

misgovernment in his attack on the rich

men and corporations of that city who are

tax dodgers. To-day Chicago's assessed valuation, despite her wonderful growth is \$37,000,000 less than in 1873. The result

tells most interestingly of its start and on money for the year to come. B. C. WILSON.

W. MO.—We had tweek. The ground for plowing. There morting of the 18th.

A. CALHOUN.

A. CALHOUN.

A. CALHOUN.

A. CALHOUN.

A. CALHOUN.

There is most interestingly of its start and marvelous growth. George Barry Mallon, the well known New York "Sun" man, has written most entertainingly and complete the year to come.

"Don't put much 'pendence on borrowe money," said Uncle Eben. "When yo credit's bad you can't git it, an' who of "Great Types of Modern Business." Washington Star.

WRITE FOR OUR

Windmill Book

You can't buy a windmill wisely until you read our book. It is a book of 40 pages, with 125 pictures, telling in a delightful way just what you want to know.

Its writer knows more about windmills than any other man in the world. The book is free; let us send it.

To get the wrong windmill is a pretty costly mistake-a mistake from which no guaranty can protect you. You cannot tell whether a windmill is good or bad until you set it up, and setting up is expensive.

Suppose you find then that it isn't right; that it requires a high wind; that it is going to stand still about half the time when you want it to work.

You can't return it without taking it down. The cost of erecting and removing it is more than the cost of the This book avoids that for you. It will make you wise on windmills, so you can't make a mistake.

Of course the book tells about Aermotors.

We know that a man who reads it will buy no other windmill. That is why we publish the book. But it tells only the truth. It makes you a capable buyer. And when you know what you should know out windmills, you will know you need the Aermotor.

ABOUT AERMOTORS

Twelve years ago the writer of this book made the first Aermotor. He made it after 5,000 exact experiments with 165 different wheels. He had spent a year and a fortune in getting a wind-wheel right. The first Aermotor was ten times better than the best windmill before it. It required but a third as much

This man kept on making improvements until he had covered the Aermotor with 55 patents.

Then he introduced the steel tower.

He invented machinery to make Aermotors cheaply. One machine alone does the work of fifty men. He cut the cost of wind power to *one-sixth* what it was when he started. The saving is yours. THEY ARE CHEAP

One result is that an Aermotor costs you less than any other windmill worth putting up. It has 55 important, patented features that no other windmill has. It has a wind-wheel which runs when all other wind-wheels stand still. It will outlast any other windmill, and some of them two and three times over.

CONTROLS THE WORLD'S TRADE

Twelve years ago all the windmill trade of the world belonged to others. Now more Aermotors are sold than of all other windmills combined. Six men out of each ten who buy windmills buy Aermotors. The other four would buy Aermotors, too, if they knew them.

No man will knowingly pay more than Aermotor prices for a windmill not half so good. That is why we ask you to send for this book. We don't ask you to buy direct. We will refer you to our local dealer near you if you choose. But write here for the book. Don't buy a windmill without knowing what a windmill should do. Write now, lest you forget. Address

AERMOTOR CO., 1280 Twelfth Street, CHICAGO

We have another book about Power Aermotors for doing all sorts of work - for grinding, for sawing, for cutting feed, shelling corn and running many kinds of machinery. This book is free, too. Also a book about Pumps, Tanks, Substructures, Pipes, Fittings and all sorts of Water Supply Goods. We make 160 tons of Piping Our plant occupies more than 30 acres. This is considered a pretty good sized farm in New England.

by, with the soil in good condition, except in some of the eastern counties, where the ground is so dry that plowing cannot be finished. Reports indicate that a large acreage of both wheat and rye will be sown. In the northern and western sections some wheat is up and looking fine. COTTON PICKING is in full progress in the southeastern counties and there is some complaint of a scarcity of pickers.

PASTURES continue to improve in most sections, though in some of the northern counties their growth has been northern counties their growth has been a half-crop.

J. E. MAY.

amber, 10gilic; white clover, 114giligide—inferior and broken less. Extracted and strained—Southern in barrels at 4c to 4½c; cans, 4½gic; cans, 4½gi brushes, also painters' supplies of all \$107,700 on notes outstanding and for \$125, thorough destruction of volunteer wheat, accompanied by late seeding, through their reduction of the numbers of insects wintering over, are the most practical means.

Owing to the situation of the larvae down in the crown of the plant, there is little possibility of valuable results from pasturing the wheat during fall and winter. Where fields are pastured early, chance eggs may be destroyed before kinds offered at prices that it would be 000 for bonds held by the Chicago Trust readers will make money by sending for readers will make money by sending for one, especially if they have any painting to do this fall. The prices are away below what the same goods can be bought for elsewhere and the company guarantees to make good every statement made in their catalog, so that none of our readers need fear being deceived in any way, as the Heller Chemical Co. is thoroughly religible in every respect. Be sure when the company for the property of the company reliable in every respect. Be sure when writing to ask for their paint catalog and kindly mention this paper. These paints are all mixed and ready to put right on.

> DROUTH IN ENGLAND .- "I see by the dispatches that England has had a severe siege of drouth," said a well posted cattle dealer this morning, "and that tax dodgers. To-day Chicago's assessed ed cattle dealer this morning, "and that valuation, despite her wonderful growth is \$37,000,000 less than in 1873. The result of this criminal malfeasance is shown in the streets, the police and fire departments and the schools of Chicago, "The Biggest Camp Meeting in the World" is at Ocean Grove, N. J., and Eugene Wood cat Cocan grove, N. J., and Eugene Wood cattle dealer this morning, "and that thousands of dry weather cattle were forwarded to market. Now that can report to the strength of the same that thousands of dry weather cattle were forwarded to market. Now that can report to the same that thousands of dry weather cattle were forwarded to market. Now that can report to the same that thousands of dry weather cattle were forwarded to market. Now that can report to the same that thousands of dry weather cattle were forwarded to market. Now that can report to the same that the same t



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Benton Harbor, Mich., Aug. 28.-Failure

drouth was apparently the cause of the failure of crops, the real cause was the

-HEAD- SHORTHORNS In herd; young stock of both sexes for sale. The Cruickshank bull Duke of Hardson 123,967 a head of herd. W. H. H. Stephens, Bunceton, Mc

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